GRUMMAN plane news

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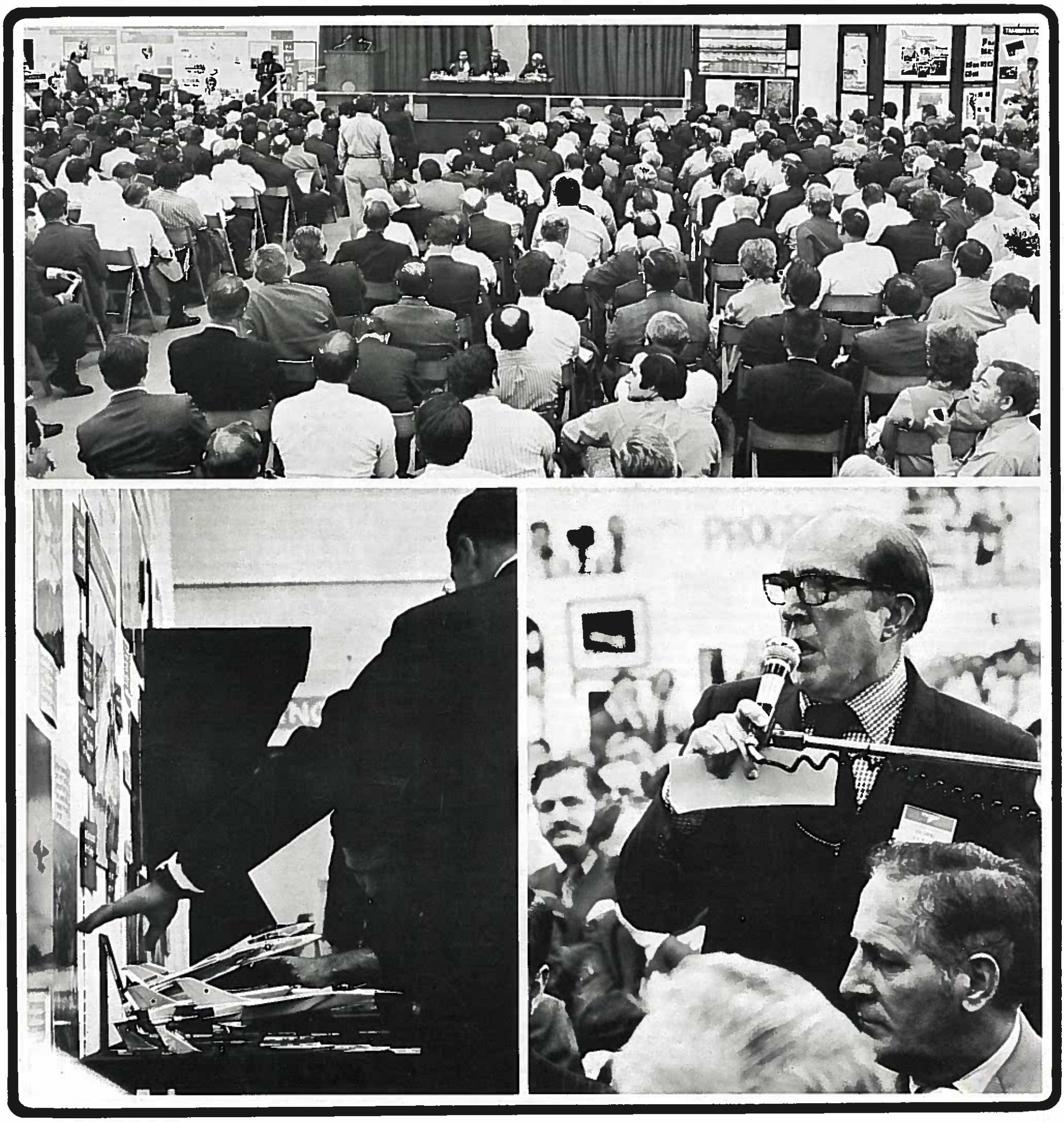


Evans helps launch drive to aid families of POWs

That giant "swap" campaign being conducted on the West Coast to help provide financial aid to POW families got an added boost last week when Board Chairman Lew Evans kicked off the drive at Grumman. Evans is shown making his contribution to the campaign to his special assistant, Frank "Gabby" Gabreski, America's greatest living fighter ace who was a prisoner-of-war for more than a year during World War II.

There are now 10 big prizes in the "swap" grab bag. According to Norm Gandia of Business Development who is coordinating the program at Grumman, the list includes a Tennessee Walking Horse, a 10-acre parcel of land in Humbolt County, Calif., a new "mystery" car, and other attractive prizes.

Gandia is looking for donations—he suggests a minimum of $1—which can be made at any Employee Services Office. A donation will entitle you to a ticket in the drawing for the swap prizes.

TACRV, Tomcat at Transpo

Transpo '72 . . . and Tomcat 13 will be there!

Transpo, which shows off the latest transportation vehicles and systems, starts tomorrow, May 27, and runs through June 4 at Dulle International Airport, Washington, D. C.

The Tomcat, the Navy's air superiority fighter, will not be there for the entire show, coming in on the first day and leaving May 29. However, Grumman will have four other vehicles on exhibit for the full term of the show: the Tracked Air Cushion Research Vehicle (TACRV), a Grumman Allied Motorhome, the CBS Lunar Module, and a Gulfstream II. The first three will be in the static exhibit area adjacent to Runway 1L, the fourth in the Transpo exhibit area.

If you think you'd like to go, try to get tickets in advance rather than at the gate. It'll save you a little money, $2 for adults and 50 cents for children as compared with $3 and $1 respectively at the gate.

And if you intend to drive to the affair, it's suggested that you use the access road that runs between the site and the Beltway I-495 to approach the parking area. There's room in the lot for 50,000 cars, so that shouldn't be a real problem.

Aiding retarded kids

On Long Island, you can help retarded kids if you're in the vicinity of Sayville on Memorial Day, Monday, May 29, by stopping in at the geranium sale conducted by the South Bay Auxiliary of the Association for Retarded Children. Geraniums will be on sale for $1 apiece at the Community House on Gillette Avenue. Proceeds will help finance rehabilitation and recreational programs for retarded youngsters in the area.

Talking about the future

"Where we're at and where we're going" will be the subject for discussion when Congressman John Wydler of Garden City and Vice President Jack Rettaliata get together to examine future prospects of Grumman. The taped interview is scheduled to be carried Sunday, May 28, on stations WBLI, 6:30 a.m.; WLIX, 8:15 a.m.; WCTO, 8:35 a.m.; WGBB, 10:30 a.m.; WPAC, 11:05 a.m.; WGSM, 4:05 p.m.; and WLNG, 9:35 p.m. Station WVHC will carry the broadcast on Monday, May 29, at 7:30 p.m.

Passing of a veteran pilot

Friends of Norm Coutant, who had been with Grumman from 1943 until his retirement in August of 1970, were saddened to hear of his death May 12 at the age of 63. He was a Systems Marketing manager in Business Development and had been a Navy test pilot and flight instructor, production and experimental test pilot, sales representative, and program manager.

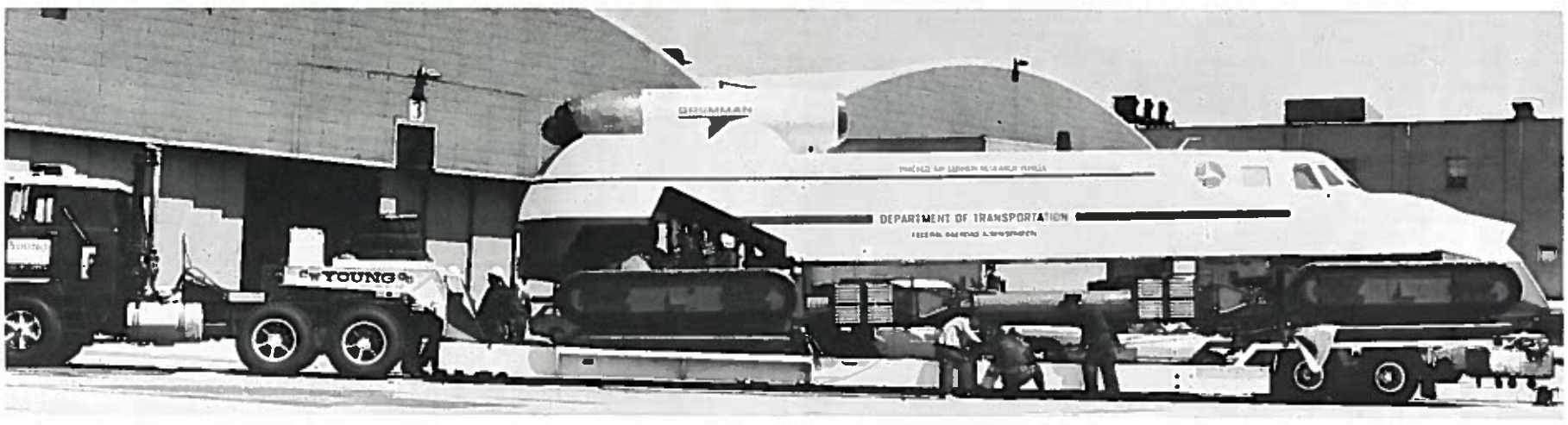
Coutant had open heart surgery in late summer of 1970, assuring the surgeons he would take the 50-50 chance they promised. He made a good recovery until about a month ago.

Reply from Washington

"Web" Webster, who's on the LM Program at the Kennedy Space Center, is probably going to frame a letter he received recently—if he hasn't done it already. Web wasn't sure whether President Nixon had been given a launch coverage envelope in commemoration of the liftoff of Apollo 16 on Sunday, April 16, so he sent one to the President, along with a note of appreciation for the President's support of the space program. On May 1 Web got a note from The White House, signed by the President, expressing his ". . . best wishes to you and your colleagues." . . . Dan Knowles, director of Personnnel for Grumman, was named by President Charles W. Laffin Jr. to the advisory committee on equal opportunity at the State University at Farmingdale.

Naval Reserve honors Klaus

In honor of Capt. George Klaus of the United States Naval Reserve, a uniform drill and cocktail party was held at Brookhaven National Laboratory on May 17. "This is a grand opportunity for us all to express our gratitude to this outstanding officer whose inspiring leadership and thoughtfulness are in the proudest tradition of the Naval Service," the invitation said. A naval plaque was presented to Klaus.



On the road to Washington. With Hangar 3, Plant 4, in the immediate background, the Grumman-built Tracked Air Cushion Research Vehicle (TACRV) is being readied for the start of its journey to Dulles International Airport in the nation's capital. There it will join other Grumman products—the Tomcat, Gulfstream II, a Grumman Allied Motorhome, and the CBS Lunar Module—in the Transpo '72 show that features well over 330 transportation vehicles and models. Transpo '72 runs from May 27 through June 4. (Photo by Carl Lassig)

Tomcat, Space Shuttle key items on shareholders' agenda

The annual shareholders' meeting of Grumman Corporation at Plant 4 on Tuesday, May 16, was a restrained affair, with undertones of concern for the Company's two major efforts, the F-14 Tomcat and the Space Shuttle proposal.

In a vote of confidence in the Company's leadership, shareholders voted at the annual meeting to re-elect three members of the Board of Directors: Clint Towl, Chairman of the Board, Lew Evans, President, and Bill Schwendler, Chairman of the Executive Committee. Each officer's term runs for three years.

Because of the financial uncertainties of the F-14 Program, the Board of Directors later announced that it was omitting the quarterly dividend normally payable in June.

It's possible that the somewhat sober mood was caused, in part, by an "internal" environmental phenomenon: once the hangar doors closed on a sultry day, with about 1,000 people inside, things started to become oppressive. To step outside into the bright sun of a muggy day was a relief akin to a soft arctic breeze.

F-14 negotiations

But, after two filmed presentations (one on Tomcat, the other on space), the doors slid open and a degree of comfort returned.

The word "if" hung over the heads of the shareholders and the Company's officers for no one there knew the answers to two vital questions. First, will the Government permit renegotiation of its contract with Grumman, beginning with Lot 5, a group of 48 Tomcats? Second, will the Company win the huge NASA-led Space Shuttle project? Uncertainty on these two mammoth programs has necessarily made the immediate future unpredictable.

(Continued on page 6)

Seek small minority business firms to help spread contract work

Probably one of the sadder sides of earning a living is to have an ability to perform a job . . . but not to know how to market that skill. That's especially true if you're engaged in what the Federal Government terms "minority business enterprises."

There are two specialists in this field at Grumman, Charlie Dunn, Small Business Liaison officer, and Ernie Simpson, assistant manager, both of the Small Business Liaison Office for the Minority Business Enterprises Program. They work out of Plant 30 but are part of the Procurement Department and could be found almost anywhere in the country.

In a way, that's part of the problem —its scope; and no one really knows how many people fall under the category of "minority business," or where these people are located, or how many of them might make a significant contribution to Grumman's commercial efforts. There are many unknowns, as Dunn and Simpson can tell you.

"Maybe our biggest problem is identifying minority businesses," says Dunn, "just finding the people. It's that simple."

According to Federal definition, a minority business enterprise is one " . . . at least 50 percent of which is owned by minority group members, or, in case of publicly-owned businesses, at least 51 percent of the stock of which is owned by minority group members. For the purposes of this definition, minority group members are Negroes, Spanish-speaking Americans, American-Orientals, American-Indians, American Eskimos, and American Aleuts." These, broadly, are the people to be helped through Federal procurement programs.

"It's an attempt to help the little guy," says Simpson, "the small business—one that could conceivably be made up of only two or three people. The odds are, though, that the people are not even aware that there's that kind of opportunity, so firms like Grumman have to spread the word. That's a long-term operation."

On the move

Naturally, Dunn and Simpson are trying to find who can help Grumman, so they visit small contractors. If a visit looks promising, they spend some time to advise "the little guy" on such matters as what it takes—machinery, distribution, materials, etc.—to bid on a job. It's the job of a coach and advisor.

"Sometimes it's a psychological job," Simpson says. "When a 'little guy' walks in here, for example, he's likely to be overawed and feel on the spot that he can't do business with a big outfit like Grumman. It takes a bit of time to see that a big company can't do everything by itself, that it needs subcontractors, often little ones. If the 'little guy' can do the job, that's all that's needed."

A good example of that came when a minority business — a fuel delivery company—won a bid as a supplier. "They didn't think there was a chance," Simpson commented. "In fact, I had to approach them a number of times. I had to tell them 'Here's the form, fill it out.' When the head of the company learned they'd won he almost jumped out of his chair! His business has expanded, too, getting contracts from other concerns. Success breeds success." And the search goes on . . .

So far, some 200 minority business enterprises have been looked over by Dunn and Simpson and 85 are currently listed as available sources.

The key task remains: finding the businesses. "Banks can help us there," says Simpson. "For instance, we tell the banks what the Company's trying to do and they let us know about their loans to minority businesses. Organizations like the Urban League help us. There is a pool of inter-company knowledge being built up across the country so that exchange of information is facilitated, and that cuts down on the work load—though there's a long, long way to go. And, of course, the Small Business Administration furnishes lists of firms, and private agencies feed us information, too.

"But we have the feeling that we, like others, have only scratched the surface."

As Dunn put it, "Somewhere out there are lots of people who could do a job for us and really help themselves as well. Who are they? Where are they? What skills do they have? What sorts of shops do they run? Slowly, we'll find out. Defense contractors are on the lookout, so are strictly civilian businesses, and if they're getting the same kind of enthusiastic backing that Grumman's giving us, a lot of those 'little guys' in minority businesses are going to be doing very well for themselves."

Searching. Ernie Simpson (L) talks with Wally Webster of Purchasing about the need to find minority-business subcontractors for Grumman. (Photo by Bob Settles)

Calling electronic technicians interested in field assignments

The word has gone out:

If you're an electronics technician and are willing to be on field assignment, working either day or night shifts as required, there's a job opportunity for you in Avionics Product Manufacturing. Even if you believe that you can handle the job because of past experience, though you're not rated as an electrical or electronics technician, you may want to take a shot at it. And why not?

If you're interested, send your resume to Charles Fuschillo, manager, Personnel Development, Plant 28. Attach your resume to the coupon below.

Electronics Technician
Field Assignment Survey

Name .....

Home address .....

Plant ..... Department ..... Permanent number .....

Present position ..... Telephone ext. .....

Please return to
Personnel Development
Plant 28

Fire first Phoenix from Tomcat

Tomcat flew an important milestone mission recently with the successful in-flight firing of a Phoenix missile at Point Mugu, Calif.

According to Pilot Sam Purvis and Flight Officer Bill "Tank" Sherman, the separation was clean and the missile exhaust plume was well below the aircraft, which happened to be Tomcat 6. This paved the way for Hughes to launch a guided Phoenix missile against a drone aircraft.

As a high priority Navy program, the Tomcat has steadily emerged as a superior weapons system utilizing the AWG-9 weapon control system, which furnishes long-range target detection and tracking, says Tom Brancati, who's in charge of Grumman's group at Mugu. Brancati says that the F-14 is living up to its predicted technical excellence and that demonstrations are rapidly providing data in proving out the aircraft's capability to insure Fleet air superiority.

Brancati also remarked that early this month Tomcat No. 6 successfully jettisoned a Sparrow missile in flight at an altitude of 35,000 feet.

Next on the docket is the beginning of Navy Preliminary Evaluation (NPE) at Mugu with Tomcat No. 5.

About the cover

The eyes that record — the photographs taken at the shareholders' meeting by lensmen Carl Lassig, Bob Settles, and Larry Van Wallendael — show the standing-room-only crowd and suggest the great interest shown in the wall-to-wall exhibits, particularly the lineup of four models of Soviet aircraft.

Name 10 Long Island seniors to receive four - year Grumman

"The Scholarship Committee takes great pleasure . . . " the letter began—and it was bugles and fireworks for 10 young high school seniors. Here in one brief letter, signed by President Bill Zarkowsky of Grumman Aerospace, was a promise of the Grumman Engineering Scholarship each contender had been hoping to win: full tuition for four years in any accredited engineering school of the recipient's choice; a job for the summer; employment with the Company after college.

This is the 29th year that Grumman has offered Engineering Scholarships "to encourage talented and ambitious graduates of Long Island schools to study engineering." To the 10 winners it means four years' schooling leading to a Bachelor's degree. An annual grant of $500 to each of the endowed colleges is also made by the Company for each Grumman Scholar enrolled.

The student may choose to specialize in aeronautical, mechanical, civil, or electrical engineering, provided his primary interest is a long-term career in engineering or supporting fields in the aerospace effort. Employment at Grumman for at least 10 weeks during the summer is ordinarily required, and upon successful completion of his engineering course, the graduate is employed by the Company provided a suitable position is available for him at that time.

Three are 'dependents'

Of 10 Grumman Engineering Scholarships awarded, three are designated for dependents of Grumman employees. These are named entirely on the basis of their standings in the College Entrance Examination Board tests that are taken in March. This year's three succeeded among a field of 49 applicants. The other seven scholarship winners, and the two alternates, were selected on the basis of C.E.E.B. tests and academic and personal background and achievement.

The "alternates" chosen each year frequently step into a vacancy left if one of the full scholars changes plans or no longer qualifies for his Grumman Engineering Scholarship.

Set luncheon

Grumman will honor the scholars, their principals, and guidance counselors at a luncheon at Holiday Manor, Wednesday, June 14.

These are the winning three dependents of Grumman employees:

ROBERT B. BRESTICKER is the son of Samuel Bresticker, a physicist in Advanced Space Systems, Plant 25, who has been with Grumman since 1964. Bob and, in fact, his whole family—mother, father, brother Stuart, 12, and sister Miriam, 9—are voracious readers, with Bob's consuming interest being in science fiction. In school he was a Merit Scholarship finalist, a member of the Mathletes and of the Forum Club and Chess Club of Bethpage High School. Last sumer he set for himself the goal of reading all of Shakespeare's plays, which he proceeded to do. And if you really want to turn him on, ask him about the stock market. This he takes very seriously, speculating with real funds. For the past three years, he says, he has been in and out of the market mostly in "glamor" stocks, which he turns over on an average of every two or three months. He claims a 50 percent increase of capital. He is also interested in systems approaches to transportation problems. One of his teachers says of Bob, "He is completely serious and dedicated to the ideals of self improvement and improvement of the species and the planet."

CHARLES E. ROHRS is the son of Charles H. Rohrs of Mechanical Systems, Plant 35. Charlie is editor-in-chief of St. Agnes Cathedral H.S. paper, The Rock, and chief school photographer, photo editor of the yearbook, and a member of the band (saxophone). He's chapter president of the National Honor Society and was recipient of a National Science Foundation summer grant in systems analysis. Of his mathematics prowess, his math teacher said, "In all honesty, I feel he is the brightest math student I have had in 13 years." He was one of 39 outstanding students who participated in an NSF program at Polytechnic Institute of Brooklyn on "Technology and Society—System Analysis and Simulation." His own special project was a computer model of a cardiovascular system. He's an avid reader of sports and of physics and math texts and has done tutoring, basketball refereeing, and baseball umpiring.

DAVID H. VANDERBILT is the son of Bob Vanderbilt, manager of Distribution Services, Plant 30, a 22-year man. Dave's list of honors is long: valedictorian of a class of 469, National Merit Scholarship winner ($1,000), editor of the Garden City High School paper, The Echo, winner of the Mathematics Association of America Proficiency Award, American Legion Scholastic Award, Paragon Oil Student Incentive Award. He tied at his level for first place in Nassau County Mathletes with a paper, "Limits of Reiterating Functions," and presented the paper at the Math Teachers of New York annual meeting last May. Dave has just been invited to take part in the U.S. Mathematics Olympiads. He plays tennis, is president of the Honor Society, and in 1970-71 was business manager of The Echo. Last summer he spent six weeks in Norway in the Experiment in International Living, and this year the Vanderbilts have a Dutch exchange student living with them.

Seven 'open' winners

These are the seven winners from Nassau and Suffolk high schools.

In 10 years in this country PETER CHANG has gone swiftly to the top. He speaks Chinese with his parents at home and has a brother completing a Ph.D. at the University of Wisconsin. He is second in a class of 520 in Paul Schreiber High School in Port Washington. In 1970 he took summer courses in physics and math at Columbia and had a National Science Foundation grant in 1971 at Manhattan College. He writes computer programs and is pursuing three independent study courses: advanced placement physics, linear algebra, and biochemical projects. "Best all-around physics student I have taught in 11 years . . . His aim is always to be learning," said a teacher. Pete plays piano and violin, likes handball, table tennis, basketball. He has belonged to the Math Team four years and the school orchestra three.

ROBERT HOLLIMON seems to have more identification with space subjects than the other contenders, and he lists as his particular hobby model rockets. He is knowledgeable about the Space Shuttle and about spacecraft in general. Building space models occupies his spare time. However, he has put in many hours working outside of school hours, as a counselor, and as a stock man at Times Square Stores. Bob belongs to the Honor Club and to the National Honor Society at Hempstead High School. He plays the clarinet.

ANTHONY MAGALDI has interests that branch off in number of directions. He's a member of the National Honor Society and is active in Junior Engineering Technical Society (JETS). He's secretary-treasurer of the Chess Club at Gen. Douglas MacArthur H.S. in Levittown, enjoys what he calls "neighborhood sports," and, like many another young fellow, listens to records a lot. Tony says he enjoys art, and he took a mechanical design course for three years. Oceanography is another of his off-beat subjects. For income, he's done selling, snow removal, and gardening and yard work.

GLENN M. MEHALEK has maintained an unusual record of attendance at Walt Whitman H.S. in Huntington: two absences in three years. He's on the school golf team, shooting in the 80s. He's a photographer with his own dark room, and he plays both guitar and clarinet. Math and science are his particular forte, and he is student assistant in electronics courses. Glenn is reported to have devoted study hall and after-school time to the repair of equipment in the electronics shop. "A valuable leader in student affairs . . . (has) sense of responsibility," according to one of his instructors. He was a National Merit semi-finalist. His working projects out of school hours include caddying and gardening.

STEPHEN C. PETERS' staying powers are suggested in his own notation of commuting to Manhattan: "I've participated in the NSF-sponsored Science Honors Program at Columbia University for four years." On Saturday mornings there, the Northport H.S. graduate studied nuclear physics, calculus, FORTRAN, particle physics, and relativity for four years. Last summer he was accepted at the Goddard Institute for Space Studies Program in computer mathematics. He built a small computer with his father, and has familiarized himself with the F-14 telemetry testing system. His school activities include Mathletes, baseball, computer programming. He sails and he's been manager of the high school swim team. Steve stands third in a class of 678.

RUSSELL B. SHAPIRO's life is an amalgam of science and extra-curricular projects. He was a participant in an NSF summer program in engineering sciences at the University of Illinois, is in an advanced physics-engineering course on Instrumentation and Automation, his experiment being one on thermocouple calibrating. He has letters for varsity tennis at Sewanhaka H.S. and has played soccer, basketball, and hockey. He planned an air-track experiment to determine the value of gravity for research in frictionless vehicles. He belongs to the National Honor Society and the Astro Physics Club, and for income he has worked in a service station, shoveled snow, and done carpentry. He's interested in model rockets and electronics.

JOHN SKROBKO has interests that range from laser experiments to ship and submarine model building. When he was taking French at Carle Place

Peter Chang
Paul D. Schreiber H.S

Robert Hollimon
Hempstead H.S.

Anthony Magaldi
D. MacArthur H.S.

Glenn Mehalek
Walt Whitman H.S.

Stephen Peters
Northport H.S.

Russell Shapiro
Sewanhaka H.S.

John Skrobko
Carle Place H.S.

engineering scholarships

H.S. he decided to construct a model of the Eiffel Tower, using toothpicks. It didn't quite pan out, so he started all over again. When he was finished he had a stable tower three feet high. An experienced photographer, he has also delved deeply into holography, and he has done independent study in chemistry. He plays trumpet in the bands and in the school orchestra, bowls, plays golf, and is treasurer of the Explorers Scouts. His guidance counselor's comment: "An imaginative young man with the tenacity of a bulldog."

Recommend scholars

Warren Allen, director of Program Engineering Management, succeeded Vice President George Skurla as chairman of the Grumman Scholarship Recommendations Committee this year. On the Committee are Art Gilmore, Sten Goldsmith, Dick Imgram, Pete Van Putten, and Ed Williams. They recommend, on the basis of apparent engineering aptitude and over-all academic achievement, as well as College Entrance Examination Board test results, the names of those applicants they consider most promising. The grants include full tuition plus laboratory fees and a $500 endowment to the school of their choice.

Total awards near 300

The Grumman Scholarsip Committee, which approves the final recommendations, includes Roy Grumman, a Director and Honorary Board Chairman; Clint Towl, Chairman of the Board; Lew Evans, President; Bill Schwendler, Chairman of the Executive Committee, all Grumman Corporation; Dr. Ellis L. Phillips Jr., President of Ithaca College.

This is the 29th year the Grumman Scholarships have been offered, and many of the previous Scholars have gone on to key positions in the Company or its subsidiaries. There have been 299 Scholar awards in the 29 years since the program was established.

Scholarship winners

ROBERT B. BRESTICKER, son of Mr. and Mrs. Samuel Bresticker, 13 Coronet Crescent, Bethpage. Bethpage H.S. He will attend Dartmouth College and major in engineering science.

CHARLES E. ROHRS, son of Mr. and Mrs. Charles H. Rohrs, 60 Broadway, Rockville Centre. St. Agnes Cathedral H.S. His choice is mechanical engineering and he has been accepted at the University of Notre Dame.

DAVID H. VANDERBILT, son of Mr. and Mrs. Robert G. Vanderbilt, 35 Franklin Ct., Garden City. Garden City H.S. He will study at Swarthmore College, with a major in science.

NASSAU - SUFFOLK WINNERS

PETER C. CHANG, son of Mr. and Mrs. Ting Chin Chang, 19 Schooner La., Port Washington. Paul D. Schreiber H.S. He will attend Massachusetts Institute of Technology with a major in electrical engineering.

ROBERT HOLLIMON, son of Mr. and Mrs. Burnest A. Hollimon, 122 Green Ave., Hempstead. Hempstead H.S. His choice is aeronautical engineering at New York University.

ANTHONY MAGALDI, son of Mr. and Mrs. Anthony Magaldi, 3928 Demont Rd., Seaford. General Douglas MacArthur H.S. Tony has been accepted at Cornell University, where he will study aeronautical engineering.

GLENN M. MEHALEK, son of Mr. and Mrs. Michael H. Mehalek, 4 Fairview La., Huntington Station. Walt Whitman H.S. He plans to attend Rensselaer Polytechnic Institute to major in electrical engineering.

STEPHEN C. PETERS, son of Mr. and Mrs. Arthur T. Peters, 19 Terry Rd., Northport. Northport H.S. Massachusetts Institute of Technology is his choice. He will major in computer sciences.

RUSSELL B. SHAPIRO, son of Mr. and Mrs. Leonard Shapiro, 370 June Pl., West Hempstead. Sewanhaka H.S. He plans to major in mechanical engineering at Cornell University.

JOHN SKROBKO, son of Mr. and Mrs. John Skrobko, 42 Peachtree La., Carle Place. Carle Place H.S. He plans to take electrical engineering at Massachusetts Institute of Technology.

ALTERNATES

DAVID A. CHARTERS JR., son of Mr. and Mrs. David A. Charters, 11 Dennis St., Garden City. Sewanhaka H.S. He will attend Lehigh University, majoring in civil engineering.

JOSEPH A. LANGONE III, son of Mrs. Joseph A. Langone Jr., 155 Verbena Ave, Floral Park. Floral Park Memorial H.S. He has been accepted at Rensselaer Polytechnic Institute, where he will study electrical engineering.

Valedictorian of 469 seniors in Garden City H.S., Dave Vanderbilt (2nd R) is also editor of the school paper, The Echo. His mother is Graydon, father is Bob Vanderbilt, manager of Grumman Distribution Services. Frans deBruyn (R) of the Netherlands, an exchange student, has been with the family since December. (Potos by Marie Trimborn)

Science fiction keeps Bob Bresticker (R) tuned into the future. He's one of three Grumman dependents named, on the basis of College Entrance Examination Board results, as Grumman Scholars. His father, Sam, is in Advanced Space Systems, Plant 25. Mother is Claire, brother, 12, is Stuart, and sister, 9, is Miriam.

President of his National Honor Society chapter and a musician and photography buff, Charlie Rohrs (R) is also editor-in-chief of St. Agnes Cathedral H.S. paper. His father, Charles, is group leader of alighting gear, Mechanical Systems. In family are sister and brother, Carol and Tom, and mother, Florence.

Towl: Involvement promotes growth, sharpens capabilities

(Continued from page 3)

As Clint Towl, Chairman of the Board of Grumman Corporation, pointed out at the shareholders' meeting, F-14 renegotiation has been and remains in discussion with the Navy, but "until a solution is reached (I cannot) offer any prediction of the outcome."

Finances the issue

Fundamentally, the issue on Grumman's side is an inability, financially, to produce the 48 aircraft in Lot 5 at ceiling price because of "cost problems due to an abnormal inflation rate and substantial loss of business base," as Towl phrased it. He pointed out that for the first four Lots "the Corporation absorbed a total estimated loss of $65 million in 1971 covering work on the 86 aircraft and related items." And he added:

"We have estimated the additional loss that would be incurred by our acceptance of the 48-plane order in Lot 5 under current contract terms to approximate $115 million."

The Navy has argued that the contract is valid and binding and must be performed by Grumman under the original terms of the contract; the Company has announced its intention not to perform Lot 5, saying (in Towl's words) " . . . we consider the Government's remaining options to be invalid and unenforceable."

This, though, is the dark side of the picture. There's a brighter one, as presented at the meeting by Vice President Mike Pelehach, who's in charge of the Tomcat Program. Tomcat's performance has been outstanding. As Pelehach said:

"To date, the F-14s have made 372 flights totaling 775 flight hours. We have flown as fast as 1,500 miles per hour; as high as 47,000 feet; as slow (sic) as 109 miles per hour; and we have landed in less than 2,000 feet of runway with maximum afterburning."

Pelehach commented on Tomcat's first NPE (Navy Preliminary Evaluation), completed last December, saying that "During this time period, six Navy pilots from the Naval Air Test Center made 39 flights totaling 74 flight hours in nine-and-a-half flying days. This feat has never been achieved before in naval aviation and attests to the reliability and maintainability of the F-14A."

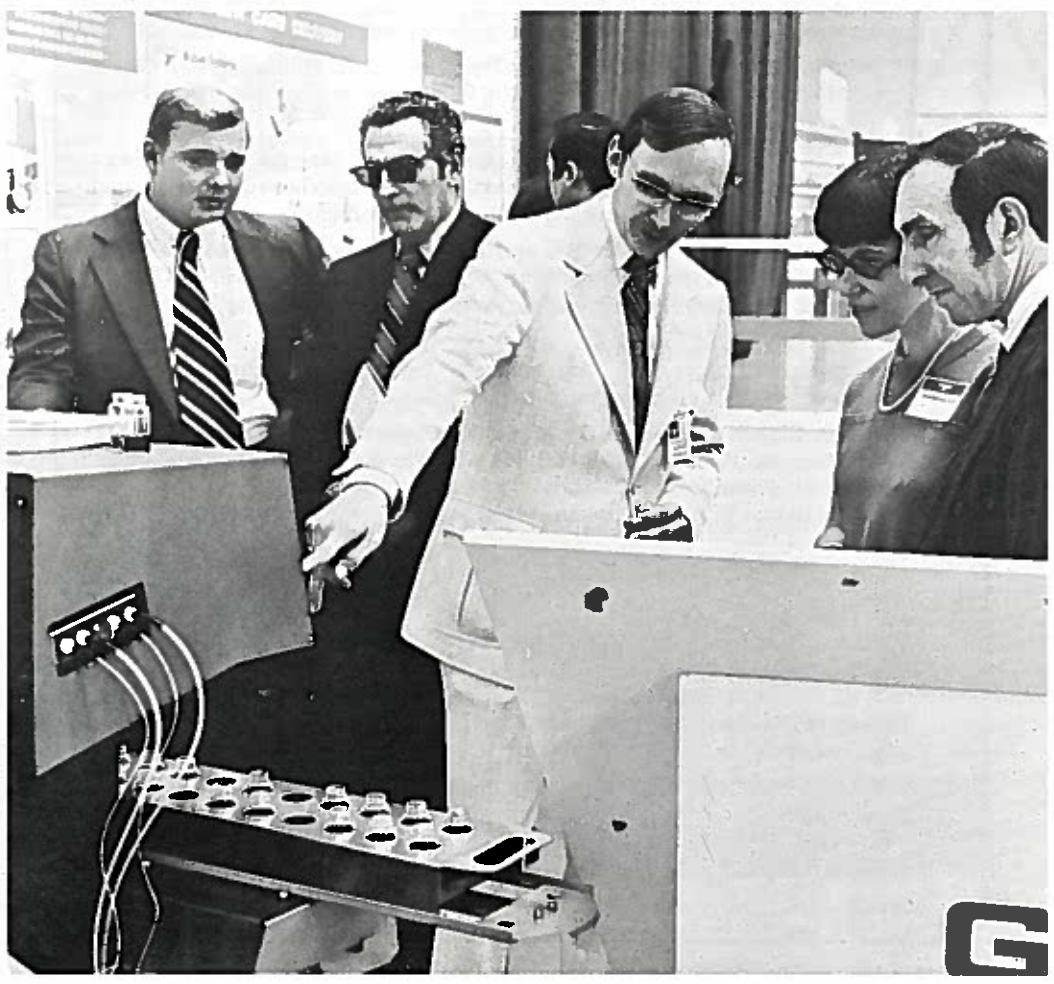
'Another plateau'

He also reported that "The first F-14B prototype aircraft, which will fly in the spring of next year, is now in the subassembly fixtures. The advanced technology engines, which will power the F-14B, are scheduled to be delivered to Grumman next January. The F-14B will offer the Navy another plateau of increased aircraft performance.

"A major effort is under way in the support area in preparation of . . . the first F-14 fighter squadrons, VF-1 and VF-2 next year. Flight trainers and back-seat trainers have been built. Over 450 Navy maintenance personnel have been through the Grumman school. In spares and support equipment deliver and in site activation, hundreds of Nav and Grumman personnel are steadi bringing these elements to a successf completion on schedule."

At this stage, Pelehach indicated, th Tomcat Program is proceeding ver very well. And he emphasized th criticality of the Tomcat, and two state ments stand out in that regard: "It ha been confirmed that the F-14 is th only aircraft in the U. S. inventor which can effectively counter the spec trum of threats to our naval force an to our country through the 1985 tim period" . . . and . . . "Today the threa is more critical than forecast in 1967.

Of great interest to the Company, too is the Space Shuttle, and Senior Vic President Joe Gavin spoke of that a well as other space programs, past, cur rent, and future. He mentioned the "per fect record" that the Lunar Module ha chalked up—five successful landings o the lunar surface—and the phenomena Orbiting Astronomical Observator



(OAO-2), the unmanned spacecraft now in its fourth year of operation and with more than 18,000 earth-orbits—a craft whose requirement was for 30 days of operation and whose design goal was one year. As for the Shuttle, Gavin reported that "within this past week we have submitted a proposal to the Manned Spacecraft Center for the . . . Program contract which NASA plans to award in mid-July."

The idea of the Shuttle, as Gavin said, is "an airplane-like vehicle that can be used over and over to take satellites to orbit and bring them back for repair and re-use. In addition to performing manned missions in orbit, its principal use will be to conduct missions with unmanned satellites more efficiently and economically than we now are able to do."

Shuttle potential

As for the Shuttle's significance to Grumman, Gavin said, "The Shuttle Program has been estimated by NASA to be in excess of five billion dollars for the six-year development period. Translated into manpower terms, this could mean close to 10,000 jobs during this time here at Bethpage and literally millions of dollars of procurement in every state of the nation. Our existing LM clean room facility is ideally suited for the construction of the crew compartment module. Other Shuttle modules are planned to be built at installations across the country . . . "

The potential is obvious.

But there is potential elsewhere, too, said Gavin. One is " . . . finding a way to tap the energy from the sun. In researching this field, we discovered that Dr. Peter Glaser of the Arthur D. Little Company had advanced a concept several years ago which promised to accomplish just this goal. We have joined with Arthur D. Little Company, Raytheon, and Textron in a study of the Glaser concept of an orbital station for generating electricity. The basic concept involves converting the sun's energy into electrical energy by means of an array of solar cells. The electrical energy is then converted to microwave energy which is transmitted in a focused beam to a receiver on the earth." Gavin says no new inventions are needed, only " . . . an improvement in efficiencies and the solution of dealing with relatively familiar concepts on a huge scale."

Technology spinoffs

He turned then to so-called spinoffs, a kind of technological fall-out that the Corporation is in the process of harvesting—such things as the Mobile Intensive Care Operating Table (MICOT), Operating Room Console (ORC), and a Female Cancer Detection Mobile Unit that is being used in New York City.

As Towl had said earlier, "We have grown enormously in a technological sense over the past decade because of our heavy involvement in the nation's space program, and we feel that it is imperative that we continue to be involved—as deeply as possible—in order to further our growth and continue to sharpen our expanding scientific capabilities so that we may cut into new fields of business."

Towl also dealt with other phases of Grumman activity (some of which were shown in exhibits and models in the hangar), such as A-6E Intruder, EA-6B Prowler, and E-2C Hawkeye; Gulfstream II; Super Ag-Cat; Grumman Allied Industries; Grumman Data Systems Corporation; and Grumman Ecosystems Corporation.

"These are hard times for us and for the aerospace industry," Towl said, "and I'm not at all sure that the atmosphere . . . will grow any softer . . . I am certain of one thing, however; and that is that this Company will continue to do the best job it can with all the talent and equipment it can maintain."

Products on display

Those who came to the shareholders' meeting early, or lingered for a few minutes when it was over, had a chance —perhaps the best ever — to see the many, many sides of the Company. It was almost all there, figuratively, in photos and text on the walls within the hangar.

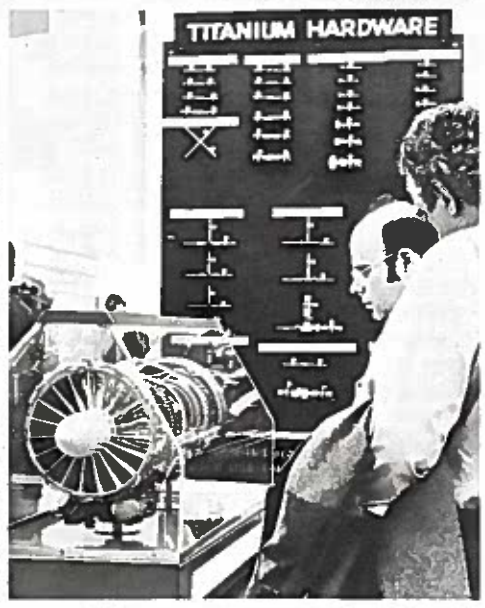
In some cases, there were pieces of equipment and materials on view, as well as a host of scale models. One female shareholder called the exhibit "the best one I've ever seen, and I've been coming a long time, I can tell you." It was quite a tribute to Dick Bolton of Public Affairs, who managed the exhibit area.

Among the sections that drew the greatest attention, the Tomcat exhibit probably ranked first, with its cut-away structural scale model of the F-14 and desk-top models of the competition's aircraft: the Soviets' Fearless, Foxbat, Flagon A, and Fishbed J.

Attracting a lot of attention, too, were Grumman Allied Industries' scale models of modular houses, which many people say will be the home of the future; indeed, of the near future, largely because of cost and ease of construction. And there was an area devoted to the evolution of space work, including such items as a large space telescope and a look at deep-space astrophysics.

But just mentioning those—and they were outstanding—seems a bit like invoking a negative assessment of the others, and that should not be the case. There were some fine ones . . . the LM, Gulfstream II, Quiet STOL, the Intruder series, Subcontract Sales, Product Support, Health Systems, military space programs, Advanced Aircraft Systems, the Surface Effect Vehicle, OAO, Advanced Development, Research, solar energy, hydrofoil, and much more.

Those who saw the exhibit seemed of one view: it was too bad that all shareholders and Grummanites could not be on hand. . . .



service milestones

40

Adriaan B. Vanhensbroek, Mfg. Test Plts. Mgt. & Staff (2)

35

William Pletka, Ofc. Mgt. (1)
Dominic Jackalone, Steel Parts Assem. (2)
Emil Prochaska, Convent. Mach. (5)

30

Thomas J. Nolan, Prototype (1)
Andreas Baudendistel, F-14 Mfg. (1)
Fred O. Smith, Pwr. Plt. Des. (1)
Alexander W. Sildar, Proj. Engg. (1)
Salvatore Teta, Sma. Parts Fab (2)
John A. Guerra, Alodine (2)
Arthur Simendinger, Heat Treat (2)
Frank S. Sadowski, Tanks & Ducts (2)
August C. Elias, Methods Engg. (2)
Theodore H. Lindblad, Forecasting & Load. (2)
Roman S. Horoszewski, Jigs & Fix. (2)
Thomas J. Stewart, Mach. Shop (2)
Kenneth W. Mebus, Marshaling & Fin. Tool Cont. (2)
John S. Nalbach, Marshaling & Fin. Tool Cont. (2)
Frank W. DeDe, Insp. Tool (2)
John H. Sparnicht, Veh. Prod. Engg. (3)
Arthur C. Fey, Insp. Mech (3)
John J. Ammann, Prod. Ctl. (4)
Harry C. Diehl, P/S Comm. Oper. (4)
Ralph E. Reichelt, Static Test (5)
William Hewitt Jr., Static Test (5)
Morino J. Beltrami, Surfaces & Assem. (5)
Curtis Williams, Maint. (5)
Catherine O'Regan, Facil. & Support (5)
Albert H. Weisskopf, Veh. Tech Mgt. & Staff (5)
E. M. (Chin) Thompson, Instr. Sys. Des. (5)
Mafalda M. Rigolini, Contracts A/C (5)
Rudolph C. Winscher, Ofc. Mgt. (6)
Raymond A. Hiller Jr., Elect. Test (7)
Louis P. Corneau, Maint. (11)
Charles A. Gerwin, Hyd. (14)
Michael A. McNamee Jr., B/P Whse. (17)
Robert R. Emmerich, Struct. Des. (25)
Walter Langdon, Sub-Assem. (27)
Joseph Lippert Jr., Aerodynamics Staff (30)
Walter A. Kranz Jr., Insp-Support Equip. (33)
Vincent W. Zedelis, P/S Electro Mech. (34)
Henry R. Schultz, Ctl. & Mech. (34)
Adrian F. Goode, Proj. Engg. (34)
James E. Brennan, Struct. Sys. Staff (35)
Alphonso Carretta, B/P Whse. (37)
Albert T. Jones, MSC Mfg. Shops (52)
George M. Doepp, Prod. Plng. (55)
Casimir S. Sidorski, Tool & Die (55)
Joseph Mullally, Tech. Ops. (77)

25

George T. LeCron, Preflight Finals (1)
Vincent C. Padney, QC Qual. Engg. (1)
John W. Bonanza, Prod. Rel. (2)
Michael D. Chirillo, Air Traf. & Radio Comm. (4)
Anthony Kowalski, Plt. Stores (6)
Charles H. Ramsden, MSC Mfg. Shops (52)
Mierczyslaw J. Szymanski, KSC QC (83)
Roy H. Erickson, KSC Mfg. Ofc. (83)

20

Saverio S. Manniello, Prototype (1)
Pasquale Calabria Jr., Fuse. Join. (1)
Warren W. Fletcher, Preflight Finals (1)
Joseph Adamo, Preflight Finals (1)
Walter R. Ayasse, Preflight Finals (1)
Ernest C. Treubig, Methods Engg. (1)
Daniel Druckman, F-14 Prod. Ctl. (1)
Warren Buddenberg, F-14 Mfg.-Mat. Cont. (1)
Frances M. Smith, Prog. Mgt. F-14 (1)
Donald Schroeder, Prototype (2)
Jacob R. Leaman, Spares (2)
Frank J. Carroccia, Prod. Rel. (2)
Thomas M. Burns Jr., EB Weld Mgt. & Staff (2)
Egil Skalberg, Food Serv. (2)
Charles J. Loeffler, Router & Shear (3)
Joseph Mercurio, Sma. Parts Fab. (3)
Henry C. Huppert, Alodine (3)
Jeremiah W. Becher, Alodine (3)
Thomas F. Warren Jr., Heat Treat (3)
Dominic V. Abbatiello, Wing Sub-Assem. (3)
James Weeks, Wing Final Assem. (3)
Clinton E. Brown, Wing Final Assem. (3)
Allen H. Clarke, Wing Final Assem. (3)
David De Losa, Honeycomb Prefit (3)
Albert E. Duspiva, Honeycomb Final (3)
Daniel B. Tallon, Mfg. Test Plts. Mgt. & Staff (3)
James McCue, Maint. (3)
Alec S. Cullum, Maint. (3)
Joseph J. Meyer, Insp-Mech. Grumman 4
Artis D. Bradley, Insp.-Mech. (3)
Alfred Polcek, Insp-Mech (3)
Robert B. Yarroll, Insp-Mech. (3)
Michael Tokar, Static Test (5)
James E. Jack, Static Test (5)
Donald A. Nohs, Surfaces & Assem. (5)
Louis De Franco, Surfaces & Assem. (5)
Allan A. Brooks, Surfaces & Assem. (5)
Ruben Custis, Maint. (5)
Russell E. Conklin Jr., Operations (5)
Kenneth Hale, Ops. Anal. & Plng. Research (5)
Arthur Fletcher, Insp. Elect. (5)
Charles R. Fossett, Inst. A/C Test (6)
Edward H. Seeley, Avionics Inst. (6)
John E. Gutschwager, Avionics Inst. (6)
Chester J. Kane, Preflight Finals (6)
Bernard J. Koloski, Flt. Ops. (7)
Kenneth L. Watson Sr., Plastic/Plaster Tool. (11)
George J. Meskel, Maint. (12)
Buey P. Lewis, P/S Prov. Req. (15)
William F. Bayer, Invent. Ctl. (17)
Peter C. Mattina, Plt. Prot. (18)
Edward J. Egan Jr., Trans.-Oper. (20)
Bernard A. Weber, Invent. Ctl. (21)
Alexander Seward, QC Prog. Mgt. (25)
George J. Pennecke, Plexiglass (27)
Thomas Bolen, Major Assem. (27)
Francis A. Fenton, Fuselage Join. (27)
Joseph Krieger, Invent. Ctl. (27)
William A. Olsen, Prod. Ctl. (27)
Sherman Jacobs, Prod. Ctl. (27)
Einer L. Peterson, Spec. Tools & Methods (27)
Frank Onza, Insp. Mech. (27)
Theodore R. Johnson, Rqmts. Plng. (30)
George Schreiber Jr., Comm. Adm. & Staff (30)
David Heisler, Pwr. Plt. (30)
Joan O. Messina, Invoice Audit (30)
Olive I. Darcy, Corp. Audit (30)
John E. Dougherty, GSE Mech. (33)
Alfred J. Ellensohn, Elect. Repair (33)
Franklin E. Lewis, GDS (40)
Thomas F. Walsh, Mgt. & Adm. (55)
William Bauer, Mfg. Oper. & Staff (55)
Ramon W. Barger, West Coast Ofc. (87)
Stanley R. Bobeck, Prod. (88)
Richard F. O'Brien, QS Supplier (89)

15

Edward J. Ostrosky, Fuse. Fwd. (1)
Walter Whitman, Chem. Engg. (1)
John F. Duffett, Press (2)
Alfred A. Aceto, GSE Mech. (2)
Daniel O'Brien, Stock Ctl. Mgt. & Staff (2)
John S. Bruder, Convent. Mach. (3)
Vincent Lauria, Equip. Lines (4)
Spero (Craig) Kavafes, Present. Serv. (5)
Kenneth M. Becker, Flt. Avionics (6)
Donald S. Mac Kay, Support Equip. Prod. (6)
John J. Sweeney, Maint. (6)
John J. Cannon, Pwr. Plt. (6)
Bernt E. Moller, Flt. Oper. (7)
Eugene Yasinski, Maint. (14)
Julius F. Harder, Ant. & Radomes (14)
Anthony Italiano, Prog. Mgt. E-2 (15)
Henry C. Ward Jr., Dist. Services (25)
Joseph S. Russo, Crew Sys. (25)
Edward C. Hornbuckle, Sys. Relia. & Safety (25)
Jesse J. Jackson, Medical (28)
Robert J. Donohue, Flt. Avionics (33)
John Dulmovits, Loads & Criteria (35)
Emery Onufrey Jr., Prod. Mgt. Ops/Stf (77)

G. T. Le Cron

V. C. Padney

J. W. Bonanza

M. D. Chirillo

A. Kowalski

C. H. Ramsden

M. J. Szymanski

R. H. Erickson

Tulip time. And Frank Sadowski's assortment of tulips earned him first in that class and Best in Show. Marie Catalano (R) and Frank Vernon (2nd R) were helping with the display, and Larry Rockwell, Secretary of Grumman Corporation, dealt the prizes. (Photo by Marie Trimborn)

Sadowski shows he's old hand by winning seven show awards

The Grumman Spring Flower Show held at the Plant 30 Cafeteria "brought in the greatest number of newcomers ever, and they were winners, too," said Kay Zuk of Employee Services.

Big winners, like Alice Miller, for instance. Alice is a comparative newcomer to the flower shows, having entered only a couple of times before. "But I never won anything. This makes up for it," she said as she displayed the silver cup she had just received. When the show was over, she left with four awards.

While there were many new faces at the May 11 show there were a lot of familiar ones, too. The retirees were well represented and Corporate Secretary Larry Rockwell was there to present the prizes. "Best in Show" went to Frank Sadowski for his tulip assortment. His flowers brought him seven awards, surpassing his record of last year.

Retiree Mal Ketcham was another big winner, with first prize in the Single Tulip category, first in the Narcissus Assortment, and first and second in the Daffodil single and Narcissus categories.

Rose Show next

Coming next is the Grumman Rose Show, Thursday, June 15, Plant 35 Cafeteria. There will be 33 classes including eight novice categories. Pick up a copy of the colorful Rose Show announcement booklet for a lot of information on showing prize-winning roses. Besides first-place trophies and other Grumman prizes, Jackson & Perkins will present a special award of floribunda bushes. There will also be Flight Shop gift certificates. Kay Zuk, Ext. 3393, is Grumman Garden Forum director, and the Rose Show managers are Chuck Belensky, Ext. 2275; Gus Preiser, Ext. 3028; Joe Schaefer, Ext. 1131. Show hours are 11:50 a.m. to 1:25 p.m.

Fish story. It took a couple of weeks for the rain to go away, but anglers at Plant 56 in Sterling, Va., finally got their shad fishing contest underway a couple of weeks ago. The winners: Jesse Lambert, first catch; Bill Boehmer, biggest catch; Steve Gross, total catch.

Mixed golf on tap

Better get your partners lined up—the first of three Mixed Pinehurst golf matches this season at Bethpage State Park is scheduled for Wednesday, June 21, according to Mike Cherry of GAA. Mike advises those interested to sign up early because the field is limited to 30 mixed teams.

The fee: $8 per team, which includes greens fees and kickers prizes. In a Mixed Pinehurst, each team member tees off, plays his or her partner's drive on the second shot, and then they select the better positioned ball for the third shot, continuing to play it until it is holed out. Tee-off is 4:30 to 5:30 p.m.

In the nine-hole match, each team picks a handicap they think will allow them to finish between 30-40 after subtracting the handicap from their total score.

Get in touch with Mike if you're interested. He's on Ext. 2133 or 2269.

Another ace!

Here it is, only a couple of weeks into the new golf season, and another hole-in-one—the third so far—has been reported to the Grumman Athletic Association. This time it was Jim Herzberg of Product Support, Plant 34, who dropped in an ace. It happened while he was on a golf weekend at the Hershey Country Club in Hershey, Pa., with Bob Amott, Mort Husted, and Joe Whelan.

Jim selected a 4-iron for the par-3 167-yard 17th hole on the west course at Hershey, and the drive landed about a foot-and-a-half in front of the cup, took one bounce, then settled nicely in the hole for an ace. Jim had an 87 for the round. And wasn't that a helluva way to start a golf weekend!

Go see Willie!

It has been a long time since New York baseball fans have had the opportunity of seeing Willie Mays play for a home team, but this season fans—some who remember when Willie was known as the "Say Hey" kid—can see him play in a Met uniform.

GAA has obtained tickets for three Met games this season, the first a night game between New York and the LA Dodgers on Friday, July 7. The seats, located in mezzanine sections 13, 15, and 17, cost $2.75, and if you want to make the trip to Shea Stadium in a special bus leaving from Bethpage, it will cost $1.60 extra. Total: $4.35 per person.

Other "Grumman nights" scheduled this season: August 4, Mets vs Chicago Cubs; September 8, Mets vs St. Louis Cards.

Call GAA, Ext. 2133 or 2269, for additional information.

O'Connor hits 632 pin total

Although the 1971-72 bowling season is heading toward its final wrapup, Tom O'Connor did his best to keep the competition alive in the Aerospace loop with a hefty 632 string on games of 205, 212, and 215. Trailing him were Dave Evans, 215-207-620; George Ulrich, 218-210-600; Ben Pennino, 227-590; and Fred Kuehne, 222-568.

In the Gray league, Bob Maller paced the Mets to a tight team victory over 4 Beers & A Coke (no togetherness there!) to capture the title on the final night. . . . High scorers in the Classic circuit were Lou Levoy, 227-213-613; Fred Loo, 213-203-201-617; and Nick Corvelli, 200-225-618. . . . Tom Wright's 226-578 and Bill Wright's 212-565 were outstanding in the last session of Trader play, but those efforts could carry the Seconds no higher than third place in the standings. Above them were the winners, the Jets, and runners up, the Penny Pinchers.

Dennis Masterson posted a 244 game mark in the Patchogue Mixed loop recently, while Maggie Gaynor hit 202-530 and George Landin fired 543 to keep the Good Friends in shooting range of the league-leading Gulfstream II. . . . Century Mixed gleanings included Lil Frank's 505, Marilyn Cozzette's 499, Arne Alvar's 554, and Phil Musa's 539. . . . Al Albanese's 213 and Bill Buchman's 211 paced Nite Owl play.

Holsten first in golf trials

Bob Holsten, a member of the Grumman golf team for the past couple of years, edged Jim Alverson by two strokes in the final round of the 54-hole playoff tourney to take over the top spot on the varsity tee squad.

Tied going into the last 18 holes, Holsten fired 40-39-79 for a 232 total while Alverson, captain last year, shot 44-37-81 and totaled 234 in the trials.

Two other veterans, Tony Cisco and Steve Gray, join Holsten and Alverson on the first squad that will represent Grumman in the L.I. Industrial circuit. Four newcomers took over the second squad, however, as Joe Gambino, Roy LaRosa, Ken Prager, and Bill Bartoszak made the team for the first time.

Alverson turned in the best 18-hole score in the tourney, a 73 in the first round. Holsten fired 74 in that session, followed that with 79 in the second round, and when Alverson shot 80, they went into the last round tied for the lead.

Berka top gun

Al Berka of Grumman Security proved once again that he's one of the top guns in the east. This time he did it by winning the over-all award in the recent Islip 300 Gun Club tourney, held Saturday, May 13.

Some of the best shooters in the northeast participated, with Berka scoring 860 in the .22 caliber competition, and 862 with a .45 caliber weapon. His 1,722 total (out of 1,800) earned him the top aggregate honor.

at your SERVICE

This is a free service to Grumman personnel for non-commercial advertisements, accepted on a first-come, first-served basis. Classified advertisements are carried in PLANE NEWS only on the basis that everyone replying to such advertising will receive fair and equal consideration regardless of their race, creed, color, or national origin.
Type or print ad on form available at Employees Service and Engineering counters, and send via interplant mail to PLANE NEWS, Plant 5, Bethpage. List home phone (with area code if outside Nassau or Suffolk). Limit: one ad per person per issue. No item under $10, no firearms or ammunition.

Car Pool

CTL. JERSEY: To Staten Isl. to Belt Pkwy. to S. State to Plts. 15, 14, 5, 25, or vic. Nick Giovanos, Ext. 1887.

KEW GARDENS: To Plt. 1 or 4, 8-4:30 p.m. 441-9529.

HICKSVILLE: Vic. Broadway & Old Cuntry Rd to Plt. 34. 935-5531.

Lost

TERRIER: Male, short-hair, mix., md. sz., brown w/blk. snout, red collar, vic. Bethpage-Hicksville. WE 1-3130.

Wanted

HOSPITAL BD.: Home use. 433-1180.

CEMENT MIX.: W/elec. motor. 724-3956.

DEHUMIDIFIER: Elec. Call 623-4046, after 5 p.m.

APT.: Aug. occup., yg. couple, $150/$175. 796-2294.

MISC.: Used filt. for sma. pool, must be flushable sand/charcoal type; sma. air compressor/paint spray., w/tank pref. 724-6050.

SMA. CAR: Gd. cond., for commuting, by 6/10. G. Ochenrider, Ext. 3778.

COMP. NOSE: For '67 Chevy, any mod. 731-3321.

MOTORCYCLE TRLR.: To buy or rent for 2 wks. 589-2470.

ENGS.: Mod. airplane, ignition type, for antique eng. collect. MA 6-2825.

HOUSE: To rent, 2 or 3 bdrm., 6/30 occup., within 15 mi. Calverton, up to $240/mo. 277-2797.

PING PONG TBL.: Reg. sz., 5x9 ft., gd. cond. OV 1-7381.

AUTO. FL. JACK: 1½ ton hyd. 589-5235, after 5 p.m.

BICYCLE: 26 in. boy's, 3-spd. racer, gd. work cond. 921-1895.

MARINER SLOOP: O'Day, ctr. bd. mod w/trlr. & motor, old. mod. pref. 261-1186.

BICYCLE: 24 or 26 in., gd. cond. OV 1-7381.

HOUSE: Aug. 1 thru Dec. 1/72, min. 2 bdrm. 734-5813.

ANCHOR: Yachtsman, kedge type, 25 to 30 lbs. 798-4320.

HOUSE: To rent, Nassau, S. Shore, for bus. couple, up to $300/mo. LY 9-0557.

Ride Wanted

FOREST HILLS: To Plt. 2 or 5, 7-3:30 p.m. 212 544-5553.

HUNT. STA.: Lenox Rd. vic. to Plt. 5, 8-4:30 p.m., start 6/6. Jo Ann Sciacchitano, Ext. 9212.

FOREST HILLS: Rego Pk., Flushing, to Plt. 2, 5, 7-3:30 p.m. 212 544-5553.

For Rent

ROOM: 10 mi. Grumman share bath, fem. only. MY 4-3467.

HOUSE: Smithtown, St. James, new 7 rm. col., 2 bath, lndry. & fam. rm., gar., immed. occup., $325/mo. 271-3662, evgs.

APT.: 3½ rm., East Meadow, men only or single, room. IV 1-4916.

BOATS: 16 ft. fbgl. skiff & 8 ft. fbgl. dinghy, daily, wkend. & wkly rates. 543-6119, evgs.

ROOM: Furn., Hicksville, pvt., nr. Grumman. WE 5-2466.

COTTAGE: Rocky Pt., 2 bdrm., eat-in-kit., lrg. scrn. porch, pvt. bch., avail. June, July, Aug. 757-2684.

HOUSE: Massapequa/Nassau Shores, waterfront, 3 bdrm. exp. ranch, firepl., 901 ft. dock space, $425/mo., option to buy, avail. 7/1. 541-2076.

APT.: Massapequa, 2 rms., pvt. bath/ent., refrig., hot plate permit., gent., ref. & security LI 1-2998, after 6 p.m.

ROOM: W. Farmingdale, semi pvt. bath, cedar closet. CH 9-2873.

ROOM: Nr. Grumman, furn., pvt. home, gent. pref. WE 5-2466.

For Sale

BABY FURN.: Crib w/matt., whi. w/gold trim, $35; crib w/matt., $15; Thayer playpen, wood, $15. 212 4411-6462.

BABY FURN.: Deluxe blue/wh. carr., red car seat, musical swing, infant seat, $19. 665-7961.

HOUSE: Freeport, 3 bdrm. hi-ranch, on waterfront canal, 2½ bath, Fla. rm., rec. rm., gar. 223-0156.

For Sale

CARR.: Blue coach & full sz. crib, make reason. offer. WE 8-5389.

BABY FURN.: Biltrite, blue carr., conv. to car bed. & stroller, incsl. matt. & windbreaker, plus sep. stroller, $25. Charles Weber, Ext. 84155.

PROM GOWNS: Hi-school, sz. 10 & 12, best offer. LT 9-2701, after 6 p.m.

BRIDAL GOWN: Cust. sz. 10, styled from cov. of Brides mag., $125. 751-3125.

WED. GOWN: & train, reason. offer. WE 8-5389.

BRIDAL GOWN: Ivory silk organza w/alencon lace bodice & sleeves, self-train w/hoop underskirt, sz. 9, $35. 212 671-8556, evgs.

CAMERA: Voigtlander dyn. II, 35mm, f2.8, 50mm lens, auto. or manual aperture, flash attach. type 1-A filt., blue conver. filt., $60. IV 6-0207, bet. 5-5:30 p.m.

CAMERA: Bolex H-16 w/pan cinor zoom lens, filt., lea. case, $300. 864-3134.

CAMERA: Miranda Sensorex, SLR, fl.8, cpld. meter, case w/105mm auto. telephoto lens, $150; Miranda D SLR 35mm, $45; Yashica E TLR, fully auto., $25; other photo equip. IV 1-6247.

VW: '71 Super Beetle, grn., sunroof, air cond., FM tape deck stereo, 2 spkrs., fresh air vent., 2-spd. blow., 2 xtra whls. & new stud. now, $2,499. Lewi Gibson, Ext. 1488.

MISC.: 1/16 scale Aurora slot car trk., 54 pcs., xtras, $30; 5, 10 gal. fish tanks, heat., filt., etc., $60. 798-0801, evgs.

WHLS.: 2 chuck wag., 4 ft. in dia., $35/ea. 289-3750.

TRANSMISSION COOLER: Sears med. duty., used 6 mo., $15. 588-5583.

SHREDDER/MULCHER: Kemp SK-0, 1 hp elec. motor on 4 whls., xtra switch, $100. 234-3194.

WHL. CHR.: Everest & Jennings Starliner, $85. FR 4-2066.

AQUAPLANE: Plywood mod., 1 yr., $15. AN 1-2143.

OLDSMOBILE: '66 Delta 88, pwr. steer. & bks., R&H, defrost., low mi., $650. 226-5256.

CHEVY: '64 Malibu, 6 cyl., $275. 212 631-0404, after 6 p.m.

KIT. CAB.: New comp. unit, wood, 13 cab., 5 dwrs., $200; 15 ft. Barbour runabout, deep hull, $250; Early Amer. furn. & antiques. 281-2855.

AMERICAN: '65, 330, 4-dr., auto., $275. 333-2386.

CORVAIR: '62, auto., $35. 265-3770.

PONTIAC: '66 Bonneville, rear spkr. radio pwr. steer. & bks., auto., new tires, rear defog., $750. MY 4-5091, evgs.

VALIANT: '64 deluxe 2-dr., auto., $225. 589-3789. best offer. OR 6-3005, after 4 p.m.

MGB: '65, grn., new tp. & muff., nds. minor work, best offer. OR 6-3005, after 4 p.m.

OLDSMOBILE: '69 F85, 2-dr., V-8, 350, pwr. steer., rear wind. defrost., drk. brn. ext., blk. int., bench type seats, Dbl. Circle wide guard tires, $1,800. 538-4386.

DUNE BUGGY: 1500cc, VW eng., headers, wh. conv. tp., side curt., purple metal flake, on road & regis'd., $475. 669-1343.

CHEVY: '67 SS, 2-dr. Impala coupe, all pwr., AM/FM, bkt. seats, new tires. 277-1646.

MUSTANG: '67 Fastback, pwr. steer. & disc bks., rear sports deck, new batt. & comp. exh. sys., $1,200. 724-2748.

T-BIRD: '62 blue, 8 cyl., pwr. steer., bks., & wind., $200. 585-1692.

PINTO: '71, 10,000 mi. 475-2447.

TR-4A: '68, blk., low mi., wire whls., radial tires & snows, lug. rack, new tp., $1,500. Lee Lucas, Ext. 3598.

FIAT: '70, 850 Spyder conv., blue, radio, radial tires $1300. AN 5-1929 after 6 p.m.

LAWNMOWER: 21 in. reel, $40. 587-9125, after 6 p.m.

RID. MOWER: New Briggs & Stratton eng., $175. 549-4820.

GUITAR: Elec., 1 string bkn., case incl., $18. 586-4806.

MISC.: Port. dry., no install., never used, $60; G.E. air cool., $50; Rotisserie/broil., att attach., $40; sma. broiler, $10. 938-8731.

STEREO: AM/FM phono cons., Clairtone, Garrard changer, wal. cab., $80. 271-7623, after 5.

STEREO: 8 trk. tape deck by AR, suit. 4 spkrs., anti theft slide for car & 5 tapes, $60. 938-5992.

POOL: Coleco 18 ft. w/filt., alum. ladder & access., inside wint. stor., $175. 864-4955, after 5 p.m.

POOL SUPPLIES: & equip., 1$$ bbl. drum of HTH chlorine tablets, $30; Dia. earth filt., motor, skimmer, hoses, etc., $15; pool pillows; for pool up to 20 ft. AN 5-5899.

TYPEWRITER: Olympia ofc. mod., hvy. dty. deluxe, manual, pica, full features, $90. 744-5327.

TYPEWRITER: Elec. IBM, mod. 41, exec. E.T., $325. PY 6-6317.

HOUSE: Nashua, New Hamp., hi-ranch on 16,500 sq. ft. of wood. prop., 3 bdrm., bath, lrg. eat-in-kit., liv. rm. up, 3 rm. down, ½ bath, 3 sep. ent, s-s, sewage, city water, dual therm. control, basebd. heat, walk to country club, church, shops, 603-888-2700.

HOUSE: Stony Brook, cust. M/D, din. rm., country kit., huge fam. rm. w/firepl., 4 bdrm., 2 bath, 2 car gar., pvt. apt., liv. rm., din. area, full kit, bdrm. & bath, wood. acre, $65,000. 751-2455.

HOUSE: Copiague, S. of Montauk, 3 bdrm. ranch, fin. bsmt., 2 zone heat., slate ent., panel., carpet., deep plot, lndscpd., lrg. patio, walk to bch., $29,900. 842-0486.

HOUSE: Westbury, 4 bdrm. cape, 2 full bath, att. gar., patio, xtras, will rent w/option to buy $35,000. 333-9237, bet. 5-7 p.m.

HOUSE: F'dale village, lrg. corner plot, 3 bdrm., liv. rm., din. rm., new roof & alum. sid., oil steam heat, s-s, principals only. CH 9-2347, after 5:30 p.m.

HOUSE: Pt. Jeff. Sta., 7 rm., split on corner lot, 3 bdrm., bath, cath. liv. rm. w/wood panel., carpet., pic. wind., 22 ft. den w/wood panel. wet bar, att. gar, $28,000. 473-3481.

BICYCLES: Boys', 24 in., $15/2. 757-0438.

For Sale

FALCON: '67 club wag. van, 8 pass. 6 cyl. std., R&H, $800; '57 F100 pickup, 6 cyl., std., R&H, H.D. susp., $200. 666-8965.

VW: '70 Bug, lgt. blue, 21,000 mi., new snows, orig. owner, best reason. offer. CH 9-4854.

COUGAR: '68, XR-7, pwr. steer., & bks., V-8, auto., lea. int., drk. blue, wh. vinyl tp., snows, $1,295. 842-9343.

GOLF CLUBS: Spalding start. set, 1 & 3 woods, 3,5,7, & 9 irons, used ½ season, $25. 735-8978.

MISC.: Grn. felt tp. poker card tbl., collaps., seats 8, $15; Kitchenaide elec. coffee mill, $10. MO 9-7686.

STERL. SILVER: Serv. for 8, International Silver Rhythm, 5 pc. place set., 3 xtra serv. pcs., wood chest, $180. 427-2680.

TRAIL BOOTS: Eddie Bauer K6 vibram soles, lea. lined, sz. 8½D, $14. HA 3-2644, after 7 p.m.

SNOWPLOW: 7½ ft. Western, elec. hyd. angling, used 3 times, $600. 643-3015.

AIR COND.: 6,000 BTU, Coldspot (Sears) fully auto., used 1 season, $100. 825-4980.

AIR COND.: 4 yr. Westinghouse, 5,000 BTU for slid. alum. wind., fits 18 in. open., $25. Martin Solon, Ext. 9108.

DINETTE SET: Blk. wal., contemp. 226-3527.

For Sale

HOUSE: Lindenhurst, fire dam. 2 story, 70x100 lot, $12.000. 676-4862.

HOUSE: Commack, 1/3 acre, 4 bdrm. col., 3 bath, den, full bsmt., gar., fully lndscpd., patio, $43,000. 543-9019, evgs.

HOUSE: Farmingdale, 3 bdrm. ranch, lrg. eat-in-kit., full bsmt., w-w, air cond., all appli., 60x100, $34,000. CH 9-2580, after 5 p.m.

HOUSE: Babylon, S. of Montauk, 3 bdrm., huge liv. rm. w/firepl., 1½ bath, full bsmt., gar., alum. sid., stone front, $32,000. 669-2899.

HOUSE: Deer Pk., 4 lrg. bdrm. ranch, appli., w-w, ¼ acre, xtras, Half Hollow Hills sch. dist. 586-3604.

HOUSE: Pt. Jeff. Sta., 3 bdrm. hi ranch, panel. fam. rm. w/wood burn. firepl., porch. tool shed, pool, 2 car gar., fenc. treed plot, ¼ acre, xtras, $35,000. HR 3-6126.

SOFA: Ital. prov., cust. decor. fin., avocado grn. w/cut velvet uphol., used 6 mo., $295. 212 671-8556, evgs.

FURN.: Mod. 4 pc. sect. sofa w/cust. clear plastic cov., $155; mod. kit. set, woodgrain formica tp., 4 chrs., $65; 30 gal. fish tank, std. & xtras, $30; army cot, $15. 581-3084.

BDRM. SET: Danish mod., wal., 6 pc., $125. 472-1478, after 6 p.m.

CHEST: Hand carved from Spain, 53¼ x 58¾ x 18¾; Mex. wrought iron sconce approx. 5 ft. w/gl. shade. 751-0691.

DIN. RM. SET: Antique, tbl., 4 chrs., buff., breakfront, $50. 292-0442.

MAHOG. DESK: W/lea. tp., 54x25, 2 ped., 6 dwrs. & file dwr., $50. 935-4295, after 5 p.m.

ELEC. RANGE: 30 in. counter tp., & tp. oven, 1 yr., avocado, w/wo base cab. CH 9-5608.

SEW. MACH.: Deluxe, zig zag, cons. cab., $130. 587-4413.

RUGS: 2 match. pale gold carved acrylon, oval, fringed, 6x9 & 9x12, $75/ both. 283-2991.

GAS TANKS: 12 gal. cap. for outbd. motors, $25/ea. JU 4-7348.

POODLES: AKC, apricot & blk., health guar., $75. 888-7949.

PUPPY: Beagle, AKC, tri-color, fem., shots, 9 wks., $25. 567-0229.

BILGE PUMP: Crowell Mini King, 6 volt, rated 360 gal/hr., $12. 271-7422.

TRAINS: Locomotive 1130, 027 gauge, 6 terminal transformer, cars, trks., xtras, $30. 334-6034.

BICYCLE: Boy's 10-spd., 6 mo., $75. 694-8651.

ELEC. TACH.: Sun, hd. & send. unit for 12v, 8 cyl., $25. 598-1525.

BOAT: Glastron, 15 ft. 6 in. tri hull, walk-thru windshld., Navy tp., 33 hp Evinrude elec. start, batt., tank, xtras, used less than 150 hrs., $1,200. 751-9571.

BOAT: 16 ft. Christ Craft cab., slps. 2, '58 Johnson 50 hp elec., '70 Little Dude tilt trlr., $300. MO 5-3129, after 7 p.m.

BOAT: '67, 18 ft. Crestliner, fbgl., 120 hp Mercruiser, inbd./outbd., Comsat 19 transceiver, depth find., skis, summer & wint. cov., Navy tp., trlr., xtras, $2,300. AN 5-4017.

BOAT: '66 Savage, 17 ft. fbgl., 75 hp Johnson elec. start., tilt trlr., all canv., $1,150. 669-9088.

SKIFF: 16 ft. fbgl., semi dory, new flotation, self bail., $380. 724-2720, evgs.

BOAT: 15 ft., wood, access. & trlr., $150. 585-8359.

BOAT: 32 ft. Christ Craft Cmdr., slps. 6, twin f.w.c. 130 hp, fbgl. tps., refrig., 6 H.D. batt, alternator, dbl. plank. hull, xtras, $7,000. 799-6484.

SLOOP: 19 ft. Pennant, 6 ft. beam, 3 ft. draft, 300 lb. cast iron keel, fbgl. deck, cuddy cab. w/port lgts., hatch fwd. deck, S/S rig., dacron main & jib, roller reef., Danforth anchor & rode, compass, life preserve. '70, 4 hp Evinrude outbd., $795. 423-0825.

SAILBOAT: 32 ft. sloop, 5½ ft. beam, fully equip., ask. $2,900. 433-6497.

SAILBOAT: 17 ft. L/B sloop O'Day daysailer, tabernacle, berth cush., block altion outhaul, compass, tiller ext., vinyl cuddy encl., anchor, 4 hp Evinrude outbd., Cox tilt trlr., all '71, $2,750. PY 6-8615.

BOAT: '65 Starcraft, 16 ft. fbgl., '69, 85 hp Evinrude, Navy tp., side curt., aft cov., bilge pump, tach, speedometer, xtras, new trlr., reason. offer. 273-2539.

SAILBOAT: 23 ft. fbgl. keel sloop, '67 Tempest by O'Day, cab., 2 bunks, hd., 6 hp outbd., cockpit cov., dacron main & jib, $3,100. 734-5813.

SKIFF: 26 ft. Gehrlein, 135 hp Palmer, hdtp., compass, depth find., $2,300. PY 8-6103, after 7 p.m.

For Sale

COT.: Fold. camp-type. MY 4-7890.

CAMARO: '70, 20,000 mi., V-8, auto., shift, pwr. bks., gold, blk. int., ctr. cons., o'sz. w/w, full whl. cov., radio, rear spkr. MY 2-6856.

VW: '70 Bug, lgt. blue, 21,000 mi., orig. owner, new snows, reason. CH 9-4854.

OPEL KADETT: '68, LS 1900, 4-spd., $850. 427-2526.

MERCURY: '69 Montego, 2-dr. hdtp., vinyl tp., 302, V-8, air cond., pwr. steer. & bks., radio, new tires, $1,400. 744-5382.

TOYOTA: '69 Corona, 4-dr. sed., blue, air cond., auto., R&H, new tires, lo mi. HR 3-1583, after 6 p.m.

EDSEL: '60, 2-dr., auto., 6 cyl., 46,000 orig. mi., $300. Arthur Taylor, Ext. 2075.

STA. WAG.: '66 Ford, V-8, std. w/o'drive, pwr. rear wind., 2-way tailgate, new batt. & carb, xtra mtd. snows, dent driver's dr., 98,000 mi., $550. 271-9097.

MUSTANG: '70 Mach I, air cond., pwr. steer. & bks., head, Holley 850, posi, mag whls., 4-spd., Mallory ign., full gages, S.W. tach, xtras, $2,200. 676-7584.

CADILLAC: '64 Sed. de Ville, all pwr., air cond., burg. alarm, snows, xtras, $650. 487-0790.

MINI BIKE: Lead. link type front susp., rear susp., 3½ hp Tecumseh eng., $100, melmet $10. 924-6319.

MINI BIKE: Rupp Sprint, 3½ hp, $170. 921-2083.

SPRINT-HARLEY DAVISON: '70, 350. 581-1440.

HONDA: '66, 150cc, elec. start., 2 helmets, carry rack, new tires, $200. PY 6-8150.

KAWASAKI: '68, 350cc, scrambler, 6,800 mi., 2 helmets, maint. manual, $400. 364-2093.

HONDA: '70, 750cc, fair., lug. rack, crash bar, $1,200. 922-1474.

BOAT: '66 Lawson, 18 ft., fbgl., 150 hp Merc Cruiser, I/O, 150 hr. on eng., vinyl tp., aft curt., xtras, Tee-Nee trlr., rdy. for water, $1,950. LT 9-5647, afte 6 p.m.

BOAT: 21 ft. Flying Finn, 100 hp Evinrude, xtras, 30 gal. gas tank, ask. $850. 941-9356.

BOAT: '69 American, 14 ft., fbgl., 33 hp Johnson elec. start, anchor, new batt., preserv., case of oil, water skis, rdy. for water, ask. $600. 221-3512.

BOAT: '61, 27 ft. Owens, repwd. in '71, Monomatic hd., $3,800. 248-2188.

BOAT: '60 Resky Skiff, 24 ft., flybridge, S/S, $2,200. JU 1-2940.

BOAT: 17 ft. alum., windshld., steer. & ctrls., Navy tp., trlr. w/new tires, $350. 938-2837.

BOAT: 34 ft. Jorgensen sed., flybridge, twin 210 Flagships, radio, depth find., Mono hd., CO2 sys., slps. 5. MY 1-7153.

BOAT: '54, 35 ft. Sportsfisherman, 275 hp f.w.c. Crusader, fully equip., $5,800. 666-5674.

BOAT: 14 ft. Hydrofoil, 35 knots, 35 hp outbd., trlr., $1,500; '55 Owens cab. cruiser, hull nr. rdy. to paint, 150 hp Chris, nds. work, $800. 864-7984.

BOAT: 18 ft. Thompson, 40 hp Johnson, elec., Navy tp., seat cush., gas tanks, anchor, ladder, compass, Cox trlr., xtra, $450. HR 3-9016.

BOAT: '69, 14 ft. Boston Whaler, '70, 40 hp Evinrude, elec. start & shift, approx. 50 hr. on eng., $1,295. 921-0586, after 6 p.m.

BOAT: 23 ft. Broadwater, slps. 3, ice box, 120 hp Interceptor, $1,700. JU 8-4291, after 5 p.m.

BOAT: 20 ft. Owens lapstrake, '66, 90 hp Evinrude, elec. start. & shift, '69 Shipmate tandem trlr., Navy tp., bk. cov., xtras, w/wo trlr. WE 1-6099, after 5 p.m.

MOTOR: '66 Evinrude outbd., 80 hp elec. AT 3-3248.

OBITUARIES

Plane News has received word that death has come to the Grumman personnel listed below. We extend sincere sympathy to relatives and friends.

HENRY J. PIASECZNY of Form Block, Plant 2, died May 15 at the age of 53. He had been with the Company 30 years. His home was at 68 Jefferson Ave., Islip Terrace.

BENJAMIN W. NARUCKI of Ground Support Equipment, Plant 2, died May 20. He was 51 years old and had been with Grumman 32 years. His home was at 67 Brenner Ave., Bethpage.

For Sale

OUTBD.: '62 Larson, 16 ft. fbgl., 65 hp Gale, trlr., $850. 367-4107, after 6 p.m.

SAILBOAT: Lightning #7320, trlr., moor., 2 sets sails, spinnaker, cov., xtras, $1,000. 864-7565.

OUTBD.: 17 ft. Cat., twin Johnson 40 hp ea., fbgl. on plywood, lines, anchor, 2 tanks, batt., $950. J. Schultz, Ext. 7441.

SAILBOAT: 14 ft. Blue Jay, dacron sails, $400. LI 1-3168.

BOAT: 26 ft. '63 Chris Craft, slps. 4, 185 hp. 549-4312, evgs.

BOAT: 16 ft. Raveau, 65 hp Mercury, Navy tp., side & aft curt., cust. uphol., 8 preserv., fire ext., 2 gas tanks, xtras, trlr. incl., $800. CH 9-4287.

BOAT: Glastron V-156, walk-thru windshld., Navy tp., 33 hp Evinrude, elec. start., batt., tank, cush., etc., used less than 150 hrs., $1,200. 751-9571.

BOAT: '50, 26 ft. Richardson, 125 hp f.w.c. Chrysler, slps. 4 to 6, $2,050. 589-0731.

BOAT: 18 ft. Chris Craft, 95 hp inbd., $800. JU 1-1133, evgs.

BOAT: 26 ft. Gehrlein, 327 c.i. V-8, Navy tp., cutty cab., all mahog. w/teak deck, auto. bilge pump, ask. $2,300; '71 Chibi minicycle, 5 hp, 3-spr., 200 mi., $200. MO 9-5919.

BOAT: 20 ft. Trojan, 2 bunk, inbd. cruiser, shelter tp., 48 hp Herc, din. & sun. canv., 2 new tanks, bilge pump, galley, 2 anchors, fire ext., Ozite cockpit fl., preserv., lines, etc., $950. JU 8-3248.

BOAT: '65 Thompson, 16 ft. lapstrake, Navy tp., 50 hp Mercury elec. start., 2, 6 gal. tanks. 269-6530, after 5 p.m.

BOAT: 7½ ft., 2 man wood. dinghy w/oars, $40. 757-4724.

CLAM BOAT: Blt. '71, used 3 mo., 21 ft., 8 ft. beam, fbgl., $850. MO 9-4417.

BOAT: Sportyak II w/sail, kit & oars, mold. plastic, 7 x 3½ ft., 290 lb. cap., 38 lb. wgt., twin air chambers, $90. 931-2208, after 6 p.m.

MOOR. EQUIP.: 100 lb. mushrm., 40 ft., used 1 season, $75; 7½ ft. wood dinghy, oars, $55, $120/all. OV 1-3641.

GAS LAWNMOWER: 18 in. self-prop., reel type, $50. SU 1-5730.

LAWNMOWER: '71 Briggs & Stratton, 3.5 hp, 22 in. rotary blade, used once, $45. 212 671-8556, evgs.

REEL MOWER: 21 in. Pennsylvania, 3 hp B&S, $15. F. Delaney, Ext. 1661.

LENS: 200 mm f4.0 FD Canon, new, case & hood, $130. 212 923-8509.

STEREO TAPE DECK: Bell & Howell cassette, mod. 327 w/spkrs. & dust cov., $95. 5826-

MOVIE PROJ.: 8mm, film splicer, flood lite, 650w, $20. 781-5638.

PHOTO EQUIP.: Yashica super 800, auto 8.1 zoom, f1.6 lens, new, w/mfg. guar., $155; Vivitar 84p auto 4:1 zoom, new w/guar., $60; Bell & Howell dual 8 multimotion proj., mod. 467 ZB, new w/mfg. guar., $145, other equip. IV 1-6247.

ELECT. ORGAN: Doric, dbl. keyboard, fully transist., tube amp., input/output jacks, silent hdphone output, contemp. wal. cab., $300. WE 1-3577, evgs.

HAMMOND ORGAN: '71, N322. 751-2904.

LOWREY ORGAN: Mod. HR deluxe theatre spinet, blt-in Leslie spkrs., spec. effects, 4 yr., $1,400. GE 7-5937.

BDRM. SET: 7 pc. Drexel, db. bd., $275. 747-7159.

END TBL.: Early American, $70. 665-0875, after 6 p.m.

COLOR TV: 23 in. Zenith, cons., wal. cab., 4 yr., nds. pict. tube, best offer. PY 6-5952.

TV: 23 in. Zenith, B&W cons., mod. oil. wal. cab., remote ctrl., ask. $75. 586-0757.

TOOLS: S-K Metric socket set, 3/8 drive in case, 25 pcs., never used, $22. WE 5-2865.

POOL: New, 4x12. 212 651-0981.

AIR COND.: G.E., 11,500 BTU, cust. front, 115v, used 1 month, $225. Kay Rouchet, Ext. 84813.

HAIRDRY.: Presto, 3-spd., mist, xtra lrg. hood, remote ctrl., easy open travel case, new, $23. 221-2196.

MISC.: '69 Pontiac 400 c.i. hds., $30; 400, 4-bbl. intake, $10; 400 camshaft, $10. 212 347-6516.

ENG. PARTS: Orig. model A Ford, eng. blk., hd., oil pan, camshaft, cranksshaft, exh. manifold, start., water pump & rad. JU 4-9528.

WHLS.: 2, 14 in. Cougar, 5 lug, 4, 13 in. Comet, 4 lug. will trade for 13 or 14 in. Valiant rims. LI 1-9197, after 6 p.m.

RIMS: & tires, 2, 15 in., off Rambler, 5 lug setup, $10/all. 735-5261.

PROPERTY: Arizona Sunsites nr. Tucson, 1½ acres, $1,200. 567-1221.

For Sale

AUTO EQUIP.: Sun alternator, reg. tester, $75; snap-on timing lgt., $35; snap-on tach-dwell, 75; snap-on impact wrench, $100; snap-on roll gas, $100. 269-9188.

AUTO PARTS: Corvette 4:11 posi rear, fits '63-'72, $70; Holley 4-bbl/780 CFM, $20; Corvette ring/pinion 3:08, fits '63-'72, $20. 724-4099.

PICK-UP: '65 International ¾ ton, 4-whl. drive w/hubs, pwr. lock rears, V-8, 304 c.i., 3-spd., new 7 ft. Meyer plow & bks., ask. $1,000. MO 9-5981.

CAMPER: Nimrod tent trlr., 9x7 tent w/vinyl fl. & zip. screen. wind., 9x6 cust. add a rm., grnd. cloths, tarps, curt., 2, air matt., $400. 728-0994.

CAMPER: '71 Apache Roamer sol. state, slps. 6, comp. liv. accommod., xtras, used 3 times, $1,700. PY 8-7620.

HOUSE: Levittown, 3 bdrm. cape, lrg. liv/din. rm. w/cust. firepl., new kit. & bath, w-w, $30,900. 796-2766.

HOUSE: Commack, 4 bdrm. ranch, 1/3 acre, din. rm., eat-in-kit., dishwash., lrg. fam. rm., ctrl. air cond., s-s, 2 car gar., bsmt., 16x30 cov. patio, $41,000. 543-9021.

HOUSE: Lindenhurst Vill., legal 2 fam., 3½ rm. o'5 rm., full bsmt., nr. everything, ask. $35,000. 884-5790.

HOUSE: Huntington Sta. dist 13, 3 bdrm. split, 2½ bath, firepl., lndscpd., 3 appli., $42,000. 549-1619.

HOUSE: Flushing, Queens, 50x164, 2 fam. house, 6 rm. ea. fl. w/bath, 3 bdrm., 4 car driveway, nr. all transport., $52,000. WA 2-6656.

HOUSE: Huntington, 3 bdrm. ranch, prof. fin. bsmt. w/bar, LK, s-s, 5 appli., fenc. yd., 14x14 cov. patio, att. gar., sch. dist. 13, low tax., ask. $29,900. 271-8235.

PROPERTY: 1.2 acres, Ridge, N.Y. resid. 543-2941.

PROPERTY: Poconos Locust Lake, ½ acre, 5 lakes & rec. MO 7-2960, evgs.

MOBILE HOME: 12x60 Brookwood, furn., 2 bdrm., tanks, blocks, xtras, Scranton, Pa., $4,800. CH 9-3529.

KIT: CHRS.: 4 wood., $25. 588-6364.

TRUMPET: Blessing, w/case & mute, music std., $35. 586-4806.

HDBD.: Brass fin., never used, in carton, fit twin sz., $30. 586-4806.

ROTO-BROIL: Radiant Queen, w/timer, $12. 586-4806.

POOL FILT.: Filter-flow, cart. type w/skimmer & vac., ladder, $30. BA 3-7167.

LAWNMOWER: Superide, 8 hp, $350. 334-6423.

JET PUMP: 2 stage, 1 hp, $75; w/40 gal. tank, $85. 543-2941.

GOLF CLUBS: Wilson K-28, tp. store clubs, 2 to 9 irons, 1, 2, 3, 4, woods, lea. grips, steel shaft, $85. 421-3792.

TRAVELER: '64, 21 ft., fbgl. cruiser, icebox, sink, hd., 140 hp, I/O, '70 Outdrive, '68 trlr., xtras, $3,000. JU 1-7499.

SAILBOAT: '70 O'Day Mariner 2+2, ctrbd. sloop, sails, chem. hd., outbd., trlr., xtras, ask. $4,000. 543-1931, evgs.

STOWAWAY: '70, 9 ft. sail. dinghy, 5 hp Evinrude, collap. to surfbd. sz., unsink., $150. 248-2188.

THOMSON: '64, 20 ft., new batt., Navy tp., Sea Sprite anchor, mtd. spotlght., 85 hp '64 Mercury, nds. work, $450. SU 5-5397.

BOAT: 15 ft. Barbour w/windshld., steer. & eng. ctrls., 33 hp Evinrude, used less than 10 hrs., Holsclaw tilt trlr., $625. SU 5-2791.

BOAT: 19 ft. hdtp. Penbo, eng. & access. incl., xtras, $600. PY 8-5623.

BOAT: '68, 18 ft. Larson deep-vee fbgl., 65 hp Mercury w/alternator, full equip., titl trlr., $2,000. 928-2660.

CRUISERS INC.: 18 ft., 75 hp all elec. Johnson, fully equip.. Navy tp., trlr., $1,150. MO 9-9013, after 5 p.m.

OUTBD. MOTOR: '70 Johnson 25, tank, Morse ctrl. & cables, used ½ season, $450. LT 9-2164 after 6 p.m.

MOBILE HOME: Orlando, Fla., 12x60, 3 bdrm., 1½ bath, heat & ctrl. air, $1,800 & take over 29 mo. payments, $79/ea. ED 4-2983.

ENGAGE. RING: 9/10 carat, Tiffany set set., 14 k wh. gold, appraised $1,100, $800. 423-5299.

TV: 23 in. blk. & wh. Admiral cons., $50. MA 6-2825.

CAMERA & LENS: Canon FT-B w/50mm 1.4, blk.; 35mm f2.0 FD Canon; 200mm f4.0 FD Canon; new, all w/cases, $460. 212 923-8509.

FISH TANKS: 30-gal. and 15-gal., Aquamaster filt., undergravel, filt., quartz or gl. gravel, supreme heat., rocks & pits., $75. 261-1431.

For Sale

MUSTANG: '68, blue, 6 cyl., auto., 28,000 mi., orig. owner, $1,200. CH 9-2368.

CHEVROLET: '71 Chevelle SS, 454, 4-psd., air cond., pwr. bks., radio, 17,000 mi., rear defrost., clock, instr. pkg., $3,000. 822-0333, after 4 p.m.

OLDS: '63, F-85, 8 cyl., auto., pwr. steer. & bks., $150. MO 9-7379.

VW: '65, low mi., new eng., tires & paint, $675. 293-2822.

FIAT: '69, mod. 850 Spyder, new tp., AM/FM, low mi., $975. 864-9103.

OLDS: '64 Jetstar, 4-dr., pwr. steer. & bks.. 8 cyl., $250; 120 bass accordion, $125. WE 5-8166.

CARS: '68 Olds, F-86, 4-dr. sed., auto., pwr. steer. & bks., blue, $725; Bronco go-kart, Italian, 1 yr., orange, $150. 584-6693.

AUDI: '71 super 90, $2,700. 728-0922.

CORVETTE: '67, 427, 2 tps., cust. spoiler. & whl. wells, AM/FM, 4-whl. disc. bks. & mags, posi, $,500. 785-8528.

CORVETTE: '58 w/hdtp., 427 pwrd., manual torqueflite, 5.13 posi rear, under 1,000 mi. on drivetrain, bks., front end, etc., xtras, $1,800. 269-9188.

KARMANN GHIA: '66, blk., $800. 223-0117, after 5 p.m.

DODGE: '66 Coronet 500, 318, 2-bbl., pwr. steer. & bks., yel., blk. vinyl tp., bkt. seats, auto. on cons., mag whls., xtra rims, $450. 667-0128, after 6 p.m.

CAMARO: '67 SS, 327, auto, w/xtras, blue w/blk. int. 549-9697, after 5 p.m.

CORVETTE: '61, cust. bdy., paint & int., 427 c.i., competition T10 - Hurst shifter, Bill Thomas conv. kit, 4.1 posi, Crager mags, new spgs., shocks, & elec. fuel pump, $3,500. AN 5-2155.

VW: '59, new tranmission, front end & heat. sys., rebit. eng., 40,000 mi., $325 or best offer. 928-2748.

SAILFISH: 14 ft. fbgl., Alcort, new, $475. Mike, Ext. 2133.

MISC.: New, wh. baked enamel s-s dr., 6 ft. 8 in. x 2 ft. 8 in., $20; TV, $10; elec. heat., $20; AM radio; quilt. hdbd.; hand lawnmower; 2 guitars, amp., xtras, $100. 423-3856.

JET PUMP: & tank, for deep or shallow well, make offer. AN 5-3713.

FURN.: 5 pc. contemp. lv. rm., formica dinette; bdrm. set. Doris McGrath, Ext. 84406.

STAMP COLLECT.: U.S. mint plate blocks, Harris album, '40-'70, best offer. 888-4826.

PIANO ATTACH.: Hammond Solovox mod. J, nds. tuning, $25. 212 386-8480.

MISC.: Port. flush. toilet, carlon weekender, new, $45; water pump, works off 12 volt batt., never used, $35; jeep whls., 4 whl. drive, $9/ea. Robert Evans, Ext. 2918.

FISH TANK: 30 gal., std., reflect., heat. & gravel, $45. 292-0442.

AIR COND.: 100 volt, 7.5 amp, fits dbl. hung sash wind., cools 16x16 rm., $65. W. Leonard, Ext. 3108.

AMA. RADIO STA.: Heath HW-16, 50-90 watt, CW transceiver, spkr., crystals, & ant., $115. 751-1256.

POOL LINER: New, vinyl, 18x4, hvy. gauge, winterized, $45. GE 7-3217.

TWIN STROLLER: Front & bk., car bd., $15/both. 681-9588.

plane GRUMMAN news

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Third carrier squadron will fly 'Prowler' on jamming missions

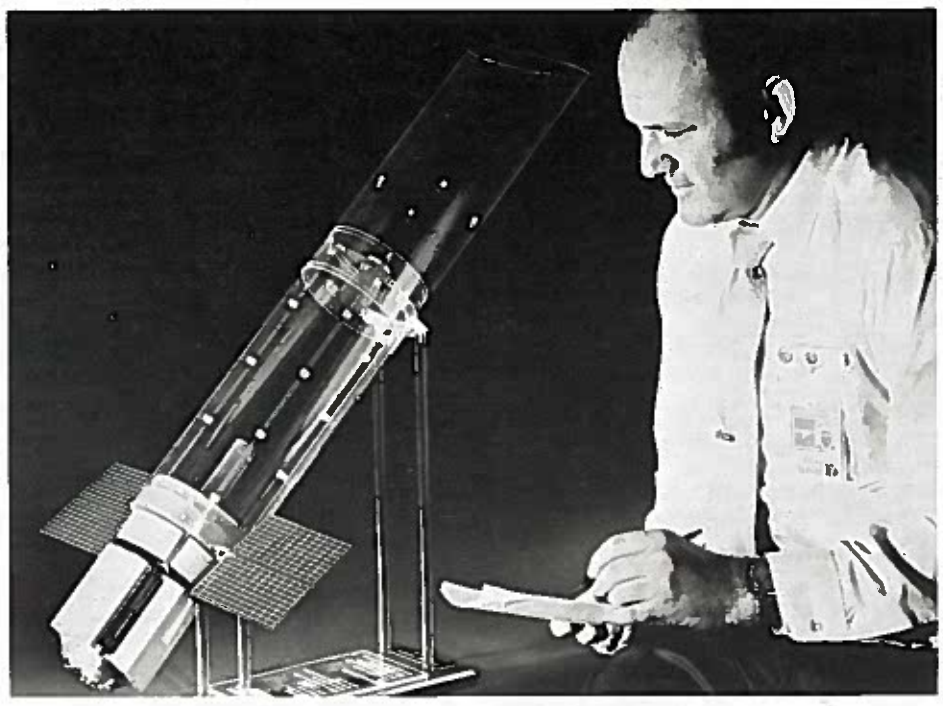
The Navy has named the EA-6B the "Prowler." And with good reason. The four-place, twin turbojet plane built by Grumman for carrier operations is a fully integrated electronic warfare weapon system that combines long-range, all-weather capabilities with an advanced electronic countermeasure system. Its mission: jamming enemy radar systems.

A couple of weeks ago, the Navy gave further import to the role the "Prowler" will play in carrier operations when it announced that a third Fleet squadron, VAQ-134, will fly the EA-6B. Among the distinguished guests attending the "reactivation" of VAQ-134 at the Naval Air Station at Whidbey Is., Wash., were Rear Adm. Herman Trum, Commander Fleet Air, Whidbey; Read Adm. Wesley McDonald, Commandant Thirteenth Naval District; and Capt. Ralph Huth, Commander, Tactical Electronic Warfare Wing 13.

Cdr. Bernard Deibert, skipper of Tactical Electronic Warfare Squadron 134 (VAQ-134), assumed command of the group about a year ago just before the squadron stood down at the Naval Air Station at Alameda, Calif. Since that time, the men of VAQ-134 have been engaged in retraining programs to prepare them for operating and maintaining the highly-complex EA-6B. Prior to his present command, Commander Deibert had been Asst. Air Officer aboard USS Enterprise. Among his flying awards are two Distinguished Flying Crosses, nine strike/flight Air Medals, and three Navy Commendation Medals with Combat V.

Another veteran Navy pilot, Cdr. Dan O'Connell, is Executive Officer of VAQ-134. Commander O'Connell, formerly Executive Officer of VAQ-129, had served aboard the USS Coral Sea as Carrier Controlled Approach Officer, then Asst. Air Operations Officer, and later with VA-153 flying the A-4. Among his awards are four Distinguished Flying Crosses, four Air Medals, 20 strike/flight Air Medals, and four Navy Commendation Medals with Combat Distinguishing Devices.

Frank Farrell and John McCuen are attached to the squadron as Grumman Field Service representatives.



LST. Grumman Model Shop in Plant 5 made this see-through model depicting Grumman's initial design for a Large Space Telescope. Sub-systems and experiments can be maintained or replaced while telescope is in orbit. Dave Hershowitz is Operations manager for Phase A studies. (Photo by Jim Wagner)

This tanker on receiving end — KA-6D earns more Navy kudos

More kudos for the Intruder tanker! This time the accolade for the KA-6D came from Lt. Bill Matthews, Public Affairs officer and radar-intercept officer of Fighter Squadron 151 (who happens to be the son of John Matthews of Program Management, Plant 35). "Bill (Annapolis '68) . . . was raised on a diet of Grumman planes. . . . He's looking forward to becoming closely acquainted with the F-14 at Miramar," he says.

Lieutenant Matthews' message to Plane News: "We were particularly interested in the article concerning LCDR Gary Wheatly and the KA-6D. As one of the major recipients of the KA-6D fuel payload during a seven month combat deployment. . . . VF-151 can authoritatively reaffirm the outstanding characteristics of the new tanker.

"During daily operations which routinely involved tanking, the KA-6D proved itself most reliable. . . . This reliability greatly enhanced the combat readiness and capabilities of the ship/airwing team. The extra airborne fuel available contributed significantly to the confidence enjoyed by the squadron's fighter crews. . .

"As we anticipate another deployment to the Western Pacific with Airwing 5 onboard Midway, the men of Fighting 151 congratulate all at Grumman on yet another fine addition to the Navy's fleet operations."

CALENDAR of events

Notice of events for period June 16 - June 30 should reach Plane News by Tues., June 6.

Am. Radio Club: Wed., June 21, 5 p.m., WA2LQO radio shack on roof of Plt. 5, final ARRL field day plan. E. Goodman, Ext. 87125.

Chess Club: Tues., 5 p.m., Plt. 3 cafe, tournament, games. Alex Ikonnikow, Ext. 7592.

Coin Club: Wed., 12:05-12:50 p.m., Plt. 25 Vendor Conf. Rms. Ken Hale, Ext. 1936.

Ex-Servicemen's Club: Vets counselor avail. alternate Thurs., Plt. 2 ofc. (nr. lobby), Ext. 2814. Al Kordula, Ext. 87259.

Flying Club: Fri., June 9, 5 p.m., Plt. 28 audit., constitutional amend. Stan Kalemaris, Ext. 7341.

GAC Divers Club: Wed., June 7, 5 p.m., Plt. 15, Present. Rm. C. Joe Roth, Ext. 86021.

Huntington Toastmasters Club: Mon., June 5, 8 p.m., Allstate Bldg., Old Country Rd., Melville, T. Campbell, Ext. 3125.

Instrument Soc. of America: Fri., June 16, 8 p.m., Narragansett Inn, Lindenhurst, annual dinner dance. Ed Conroy, Ext. 9515.

Rod & Gun Club: Wed., May 31, 7:30 p.m., John's Oasis, Hazel St. & Bway, Hicksville, formation of sep. pistol club, members req. to attend. H. Fesq, Ext. 3133.

Soc. of Mfg. Engineers: Mon., June 12, 7:30 p.m., Plt. 30 cafe, video tape present., "Metric System," pre-registration necessary. Dick Knoll, Ext. 84040.

Name Voorhest

Bill Voorhest, a co-director of Opportunity Development Department, has been named to serve on the boards of the Grumman Employee Investment Plan and the Grumman Employee Pension Plan. He serves on these boards with Grumman Corporation Board Chairman Clint Towl and Grumman Corporation Secretary Larry Rockwell.

Voorhest succeeds Lou Willing, who retired from the post after serving on the Pension Plan board since 1954 and the Investment Plan Committee since '65.

Picnic time

Mark it down—Saturday, July 22. That's the date for the 1972 Grumman Family Picnic at the Calverton facility, and Gus D'Errico promises another big day.

NASA gives go-ahead signal on plans for space telescope

NASA has decided to proceed with detailed planning of a large multi-purpose optical telescope to be launched and serviced by the Space Shuttle in the 1980s. Grumman has been working for some time with Marshall Space Flight Center on in-house, pre-phase B studies. Phase B Request for Proposal is expected next spring, according to Pete Simmons, assistant for Space Astronomy to Vice President Ralph Tripp and LST Program manager.

The Large Space Telescope (LST) will be able to look at galaxies 100 times fainter than those seen by the most powerful ground-based optical telescope. Within the solar system, it will be able to provide long-term monitoring of atmospheric phenomena on Venus, Mars, Jupiter, and Saturn.

High expectations

Scientists expect the LST to contribute significantly to the study of energy processes that occur in galactic nuclei; the study of early stages of stellar and solar system formation; observation of such highly evolved objects as supernova remnants and white dwarfs; and other studies relevant to the origin of the universe.

Project management of the LST has been assigned by NASA's Office of Space Science to the MSFC in Huntsville, Ala., with participation in the project by the Goddard Space Flight Center, Greenbelt, Md., and other NASA centers.

The LST will weigh between 9,000 and 11,000 kilograms (20,000 and 25,000 lbs.) and have a length of 12 to 16 meters (30 to 52 feet) and a diameter of 3.6 to 4 meters (12 to 13 feet). Its most important optical element will be a diffraction-limited mirror approximately three meters (10 feet) in diameter.

The guidance system will be capable of holding onto a target for extended periods within 0.005 seconds of arc (comparable to sighting on a dime over a distance from Washington to Boston).

Solar panels will provide electrical power to the LST, and its images will be transmitted to earth by television.

The spacecraft will orbit the earth at an altitude of 648 to 778 kilometers (350 to 420 nautical miles).

The manned Space Shuttle, which NASA is developing for the late 1970s, will be used to launch, test, and retrieve the LST from orbit for repair and refurbishment of its instruments.

Fun 'n' sun

A Thanksgiving vacation in Barbados, West Indies, is on the slate of the Grumman Athletic Association for next November. Sign-up date for the flight will be Tuesday, June 20, at 5:30 p.m. in Plant 28. Names will be drawn to determine order of sign-up. The cost will be $332, payable on that day. Checks should be made out to Bethpage Aircraft Tour Club.

Package includes round-trip flight by BWIA, leaving Kennedy International Airport Friday morning, November 17, and returning Friday, November 24. Four vacation days are required. Two meals per day, transfers between airport and hotel, gratuities, and departure taxes are included. The hotel is the Miramar Beach.

Those eligible are Grumman employees and retired personnel and their families, and guests, depending on space available.

For information, call GAA, Ext. 2133 or 2269.